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THE  
**BOTANICAL REGISTER:**

CONSISTING OF

**Coloured Figures**

OF

**EXOTIC PLANTS,**

CULTIVATED IN

**BRITISH GARDENS:**

WITH THEIR

**HISTORY AND MODE OF TREATMENT.**



THE DESIGNS BY

**SYDENHAM EDWARDS,**

**AND OTHERS.**

**VOL. XI.**

— viret semper — nec fronde cadaucā  
Carpitur.

**LONDON:**

**JAMES RIDGWAY, 169 PICCADILLY.**

**1825.**



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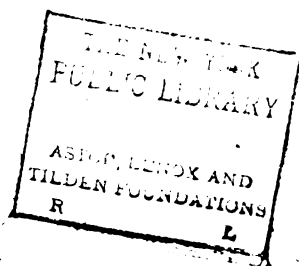
# ALPHABETICAL INDEX

TO

## VOLUME XI.

	<i>Folium.</i>		<i>Folium.</i>
Acacia sulcata .....	928	Hibiscus Richardsoni .....	875
Ægiphila elata .....	946	Hibiscus unidens .....	878
Allium fragrans β. ....	898	Hoya pallida .....	951
Amaryllis solandriiflora β. ....	876	Ipomæa noctiluca .....	889
Amomum maximum .....	929	Isopogon longifolius .....	900
Anthericum canaliculatum .....	877	Jasminum trinerve .....	918
Aquilegia atropurpurea .....	922	Kennedia cordata .....	944
Banisteria laurifolia .....	937	Knowltonia vesicatoria .....	936
Banisteria nitida, var. ....	950	Liatris intermedia .....	948
Beaumontia grandiflora .....	891	Lechenaultia formosa .....	916
Blandfordia grandiflora .....	911	Liparis foliosa .....	882
Brexia spinosa .....	872	Lisianthus longifolius .....	880
Brunsvigia minor .....	954	Moræa Herberti .....	949
Bucida Buceras .....	907	Martynia lutea .....	934
Burchellia parviflora .....	891	Maxillaria Harrisoniæ .....	897
Calacia salicina .....	923	Mimosa pudica .....	941
Calathea flavescens .....	932	Mimulus parviflorus .....	874
Callicarpa rubella .....	883	Nauclea Adina .....	895
Camellia japonica, var. ....	887	Nauclea Adinoides, 895, in textu.	
Camellia oleifera .....	942	Oncidium papilio .....	910
Carmichaelia australis .....	912	Oncidium pumilum .....	920
Castilleja septentrionalis .....	925	Ornithogalum corymbosum .....	906
Cathartocarpus Bacillus .....	881	Oxylobium retusum .....	913
Cattleya Forbesii .....	953	Pancratium carolinianum .....	927
Clerodendrum lividum .....	945	Pancratium mexicanum .....	940
Cœlogyne fimbriata .....	868	Passiflora gracilis .....	870
Costus Pisonis .....	899	Podalyria buxifolia .....	869
Cotyledon decussata .....	915	Pogonia pendula .....	908
Curcuma longa .....	886	Primula Pallasii .....	896
Cydonia chinensis .....	905	Rhododendron arboreum .....	890
Disa grandiflora .....	926	Rodriguezia secunda .....	930
Eccremocarpus scaber .....	939	Rosa grandiflora .....	888
Encelia canescens .....	909	Rosa microphylla .....	919
Enkianthus quinqueflorus .....	884	Ruellia persicifolia .....	955
Enkianthus reticulatus .....	885	Sempervivum caliciforme .....	892
Eranthemum crenulatum .....	879	Senecio venustus .....	901
Eria stellata .....	904	Sesbania picta .....	873
Eucalyptus longifolia .....	947	Stelis ophioglossoides .....	935
Fuchsia arborescens .....	943	Stylidium adnatum .....	914
Gastonia palmata .....	894	Testudinaria elephantipes .....	921
Gonolobus maritimus .....	931	Tetranthera laurifolia .....	893
Halesia parviflora .....	952	Vicia atropurpurea .....	871
Helicteres verbascifolia .....	903	Wrightia tinctoria .....	933
Hibiscus ficulneoides .....	938	Zephyranthes grandiflora .....	902
Hibiscus racemosus .....	917		







*Vanilla planifolia* Willd. *Vanilla* Mart. 1825.



## CŒLOGYNE fimbriata.

*Fringed Cœlogyne.*

GYNANDRIA MONANDRIA.

Nat. ord. ORCHIDÆ. Div. IV. Epidendrea. Sect. II. suprâ fol. 851.

CŒLOGYNE, Lindl. *Perianthium* resupinatum, patens. *Labellum* trilobum, cucullatum, cum columna articulatam. Columna alata ultra antheram producta. *Anthera* lateralis, opercularis, bilocularis. *Massæ pollinis* duæ bipartitæ (filò nullo). *Gynizus* infundibularis, bilabiatus. *Herbæ parasitica* (Indiæ Orientalis) *bulbosæ*; foliis coriaceis, glabris, nervosis. Flores pauci, racemosi, e *spathâ squamosâ*, radicali. Lindl. Coll. Bot. 33.

*C. fimbriata*, foliis binis oblongo-lanceolatis patentibus, floribus terminalibus solitariis: sepalis interioribus filiformibus; labello fimbriato bicristato.

Caudex repens, squamosus, ramosus. Bulbi ovaies, glabri, solitarii, bifolii, basi squamis duabus vaginati. Folia oblongo-lanceolata, basi attenuata, 5-nervia, glabra, patentia. Flores solitarii, terminales, in pedunculo brevi undique squamoso insidentes. Perianthii sepalâ exteriora ovato-lanceolata, basi libera, glaberrima, lateralibus labello suppositis; interiora linearia, tenuia, uninervia. Labellum liberum, cucullatum, cum columnâ articulatam, bicristatum, 3-lobum, lobis lateralibus erectis, sub-ciliatis, intermedio retuso, fimbriato, a cristis ad latera fulvo. Columna libera, erecta, obovata, alata, gynizo excavato, bilabiato: labio inferiore lunato recurvo, superiore magno, porrecto, transverso, demum incumbente. Anthera infra apicem columnæ inserta bilocularis; loculis bivavibus completis; antice denticulata, marginata. Pollinia 4, non collateralia, sed antica et postica, quorum postica minorâ; basi farinosa nec glutinosa nec glandulifera.

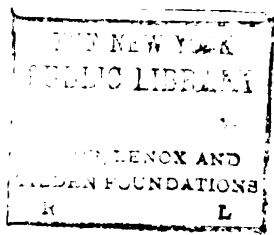
This genus is very different from *Cymbidium*, from which it is clearly distinguishable by habit, winged column below the summit of which the anthera is inserted; and also by the remarkable two-lipped gynizus, which is almost exactly the same as that of *Arethuseæ*. We established it sometime ago in our *Collectanea Botanica*, defining two certain species from Nepal, and indicating another, the *Cymbidium nitidum* of Wallich, as probably belonging to the same genus. Our definition of the genus having been drawn up from dried specimens only, it is peculiarly gratifying to us to find, from the inspection of a new living species, that our account of the genus, and of its essential characters, was in all respects correct, with the exception of the anthera being one-celled. That organ being, in the present species, dis-

tinctly two-celled, we rather believe that the contraction, in the same year, of its interior thin valves in drying, may have deceived us.

Our drawing was made in July 1824, at the garden of the Horticultural Society, where the plant had been received, by means of Mr. John Damper Parks, from China. It is a delicate stove plant, requiring the cultivation applicable to similar subjects.

*Stem* creeping, scaly, branched. *Bulbs* oval, smooth, solitary, two-leaved, at the base sheathed by two scales. *Leaves* oblong-lanceolate, attenuate at the base, 5-nerved, smooth, spreading. *Flowers* solitary, terminal, with a short stalk, clothed with many scales. *Divisions of the flower*; exterior ovate-lanceolate, distinct, smooth; the lateral ones being placed under the lip; interior slender, linear, one-nerved. *Lip* distinct, hooded, jointed with the column, 2-crested, 3-lobed, the lateral lobes erect, minutely ciliated, the middle one blunt, fringed, from the crests to the sides of a brown colour. *Column* distinct, erect, obovate, winged, the gynizus hollowed out, 2-lipped: the lower lip lunate, the upper large, porrect, broad, at length incumbent upon the lower. *Anther* inserted below the end of the column, 2-celled: *cells* 2-valved, complete; in its front edge tooth-letted. *Pollen masses* 4, not lying side by side, but anterior and posterior; those behind being smaller than those in front; at their base powdery, and not glutinous or glandular.

J. L.





*M. Hart. del.*

*Publ. by J. Ridgway 170 Piccadilly March 1. 1825.*

*J. Walter sc.*



# PODALYRIA buxifolia.

## *Box-leaved Podalyria.*

DECANDRIA MONOGYNIA.

Nat. ord. LEGUMINOSÆ.

**PODALYRIA**, L. *Cal.* 5-fidus, inæqualis, basi intrusa. *Corolla* papilionacea, *verillo* majore. *Stamina* persistentia, basi connata. *Legumen* ventricosum, polyspermum. *Brown in Hort. Kew. ed. 2d. 3. 6.*

*P. buxifolia*, foliis simplicibus ovalibus supra glabris subtus sericeis, pedunculis unifloris, calycibus basi intrusis tomentosis coloratis. *Willd. sp. pl. 2. 505.*

*Sophora buxifolia.* *Retz. obs. 1. p. 35.*

*Sophora pedunculata.* *Thunb. prodr. 79.*

*Podalyria*, No. 4. *Lam. ill. t. 327.*

*Podalyria pedunculata.* *Pers. syn. 1. 453.*

Suffrutex, ramis teretibus sericeis. Folia ovalia, plana, mucronulata, supra glabra, subtus sericea; infra-axillaria majora. Flores magni, purpurei, longè pedunculati, pedunculo sericeo, versus apicem articulato. Calyx campanulatus, bilabiatus, sericeus, labio superiore bilobo, inferiore 3-partito: laciniis ovato-lanceolatis, alis brevioribus. Vexillum explanatum, obcordatum. Alæ oblongæ, dimidiatæ, unguiculatæ, subpatentes, cum carina vexillo multo breviores. Stamina ascendentia, persistentia, inclusa, 3 superiora libera, 7 inferiora in phalange undè semiconnata; stamen supremum stigmati applicitum, styli longitudine, inferiora stylo breviora. Ovarium villosum, polyspermum. Stylus glaber. Stigma simplicissimum.

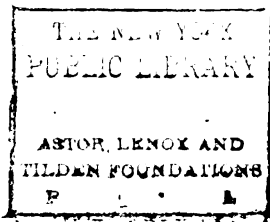
This species of *Podalyria* is nearly related to *P. myrtillifolia*; from which, however, it is constantly distinguishable, by the much greater length of its peduncle, and by the upper surface of its leaves being entirely destitute of pubescence. To these distinctions may be added, the greater size of the flowers of this species, and the villous, not closely pubescent, surface of its calyx.

A pretty greenhouse plant, said to have been introduced from the Cape of Good Hope, in 1790; but not noticed in the last edition of *Hortus Kewensis*. Our drawing was made at Mr. Colvill's Nursery last July.

An undershrub with round silky branches. Leaves oval, flat, with a little mucro, smooth above, silky beneath; those below the branchlets larger than the rest. Flowers large, purple, on long stalks; their stalk silky, jointed to-

wards the upper end. *Calyx* campanulate, two-lipped, silky; the upper lip 2-lobed, the lower 3-parted with ovate lanceolate segments shorter than the wings. *Vexillum* spread open, obcordate; *wings* oblong, halved, clawed, a little spreading, together with the keel much shorter than the standard. *Stamens* ascending, persistent, included; the three upper distinct, the lower half united into one band; the uppermost stamen is applied to the stigma, being as long as the style; the lower are shorter than the style. *Ovary* villous, many-seeded. *Style* smooth. *Stigma* quite simple.

J. L.





*Passiflora* L. — *Publ. by J. Ridgway 170 Piccadilly March 1. 1825.*

*J. Walp. sc.*



## PASSIFLORA gracilis.

*Slender Passion-flower.*

MONADELPHIA PENTANDRIA.

Nat. ord. PASSIFLOREÆ. Juss in ann. mus. 6. 102.

PASSIFLORA. Suprà vol. 1. fol. 13.

*P. gracilis*, foliis subcordatis trilobis, lobis rotundatis biglandulosis, pedunculis axillaribus solitariis, floribus apetalis. *Link enum.* 2. 182.

*Annua.* Caules *graciles, teretes, glaberrimi.* Folia *longè pedunculata, cordata, triloba, lobis rotundatis, biglandulosis, intermedio sæpius retuso.* Flores *solitarii, pallidè virides, foliis breviores.* Calyx *planus, rotatus, quinquepartitus, laciniis patentibus, a latâ basi lanceolatis, canaliculatis, radio longioribus.* Petala *nulla.* Radius *serie simplici polyphyllus, æqualis, patens: foliolis filiformibus.* Membrana *proxima fere a basi calycis interiore, incurva, plicata, margine eroso.* Inter basin membranæ et stipitis medio adest annulus carnosus cyathiformis, *lineâ elevatâ minore extus circumdatus.* Stipes *cyliindræus, erectus, nudus.* Stamina *brevia, recurva: antheris ovato-oblongis cordatis.* Ovarium *subsessile, ovale.* Styli *refracti, ovarii longitudine.* Semina *ovata, utrinque acuta, compressa, facie utraq; a centro foveato sex radiatâ.*

A curious species of Passion-flower, described, we believe, only in the very useful work above quoted, where it is erroneously marked as a shrub. It was raised, from seeds sent to this country by Professor Treviranus, at Mr. Colvill's nursery, where our drawing was made last August.

A little annual plant, producing its flowers in two months after being sown, and ripening its seeds readily. Its native country is uncertain.

With *P. hirsuta, gracilis, angustifolia, suberosa, minima, peltata*, and some others, it forms a very natural assemblage; remarkable for the absence of petals, and for the general minuteness of the parts of fructification.

*Stems* slender, round, quite smooth, as is every part of the plant. *Leaves* on long stalks, cordate, three-lobed; the lobes rounded, and having two glands; the middle lobe generally blunted. *Flowers* solitary, pale green, shorter than the leaves. *Calyx* flat, rotate, 5-parted; the segments spreading, from a broad base lanceolate, channelled, longer than the ray. *Petals* O. *Ray* many leaved, in a single row,

equal, spreading, with filiform divisions. The next *Membrane* arises almost from the base of the calyx, is incurved, plaited, and lacerated at the edge. In the middle, between the base of the membrane and the stipes, is a fleshy, cup-shaped ring, surrounded on the outside by a smaller elevated line. *Stipes* cylindrical, erect, naked. *Stamens* short, recurved; with ovate-oblong cordate anthers. *Ovary* subsessile, oval. *Styles* broken back, the length of the ovary. *Seeds* ovate, acute at each end, compressed, on either face marked with six elevated ridges, radiating from an excavated centre.

J. L.

1911



*M. Hart, del.*

*Sub by J. Ridgway 170 Piccadilly March. 1. / 825.*

*J. Watts, sc.*

## VICIA atropurpurea.

*Dark Purple Vetch.*

◆

DIADELPHIA DECANDRIA.

Nat. ord. LEGUMINOSÆ.

VICIA. L. *Calyx* tubulosus, 5-fidus, aut 5-dentatus, dentibus supernè brevioribus. *Germe*n basi hinc glandulosum: *stylus* filiformis; *stigma* sub apice transversè barbatum. *Legumen* oblongum, polyspermum, seminibus rotundis hilo laterali. *Caulis erectus, aut scandens, sæpè gracilis; folia pinnata; stipulæ parvæ; flores axillares, 1-3 sessiles, aut spicati pedunculati.* Jusq. gen. 360.

---

V. *atropurpurea*, foliolis lineari-lanceolatis, racemis multifloris secundis, calycibus villosissimis; dentibus setaceis, leguminibus ovato-oblongis cernuis hirsutissimis. *Desf. atl. 2. p. 164.*

V. *atropurpurea*. *Willd. sp. pl. 3. 1097.?*

*Herba annua, decumbens, 2-pedalis, undique pubescens. Folia multijuga, parium circiter 7, foliolis ellipticis, planis, apice mucronulatis, petioli cirrho composito. Stipulæ semisagittatæ, nunc integræ, nunc versus basin denticulatæ. Flores atro-purpurei, in racemis axillaribus, multifloris, petioli longitudine. Calyx campanulatus, pilosus, dentibus subulatis villosis: inferioribus ferè alarum longitudine.*

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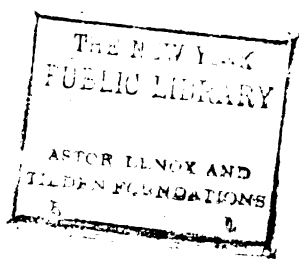
This plant has been sent to England by Mr. Fischer, Director of the Botanic Garden at Gottingen, as the *V. atropurpurea* of Willdenow. Of that plant no authentic specimens have come within our observation; but upon referring to the *Flora Atlantica* of Desfontaines, from which work the species was adopted by Willdenow, we find that writer's description applies to our plant, as well as a definition and description of a wild plant on the northern coast of Africa can be expected to apply to a cultivated individual. The specific character of Willdenow, who appears to have seen a dried specimen of what he judged to be this plant, does not however, entirely agree with it, and his description of the stipules of his plant, which he describes as being finely cut, is so much at variance with what we have observed in the plant before us, that we cannot avoid feeling some doubts

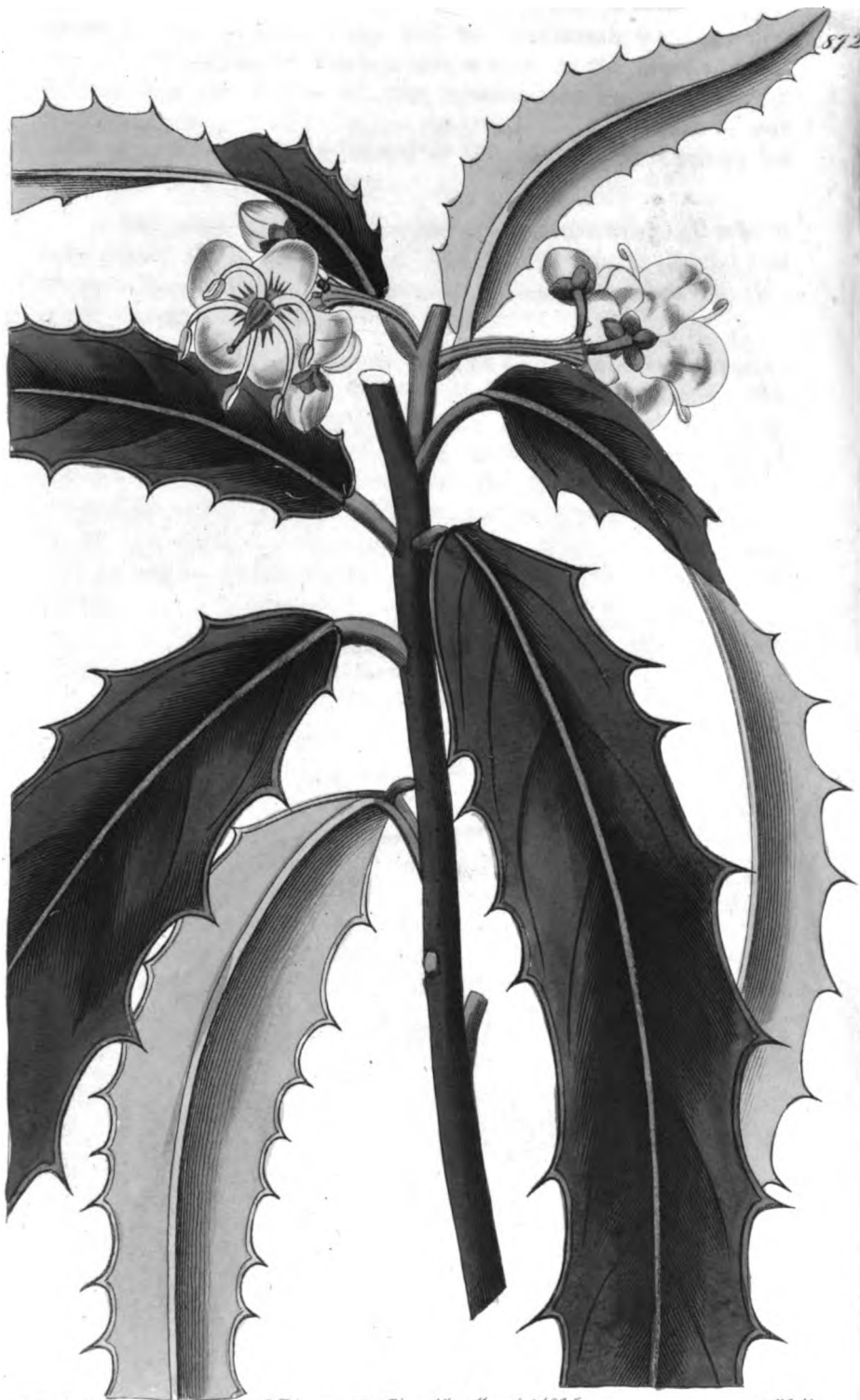
whether two species may not be confounded under one name. *V. villosa* of Roth answers best to the present individual, but the leaves of that species are villous. In the absence, however, of sufficient materials for a decision of our own, we defer to the authority of Mr. Fischer, and adopt his reference to *V. atropurpurea*.

A beautiful hardy annual plant, our drawing of which was made in the garden of the Horticultural Society in August last. Seeds of it had been received from the Botanic Garden of Göttingen.

*Stems* decumbent, about two feet high, pubescent, as are all parts of the plant. *Leaves* of about seven pairs, with elliptical, flat, pointletted leaflets. The tendril of the leaf-stalk compound. *Stipules* half arrow-headed, sometimes entire, sometimes toothletted at the base. *Flowers* dark purple, in many-flowered, axillary racemes which are as long as the leaf-stalks. *Calyx* campanulate, hairy, with subulate, villous teeth; the lower of which are nearly as long as the wings.

J. L.





*M. Hort. Lib.*

*Sub by J. H. Gray 170 Piccadilly March 1. 1825.*

*J. Waltz. sc.*



**BREXIA spinosa.***Prickly-leaved Brexia.*

PENTANDRIA MONOGYNIA.

Nat. ord. MYRSINEÆ.

POLYPETALÆ hypogynæ, insertæ sedis. Pet. Th.

GUTTIFERÆ? *Suprà fol. 780.***BREXIA.** Pet. Th. *Suprà fol. 780.*

---

**B. spinosa**; foliis marginatis spinoso-dentatis, costâ concolore.

For our drawing of this species of *Brexia*, which is distinct from that figured at fol. 730 of this work, we are obliged to Mr. John Lee, of the Hammersmith Nursery. The plant is not uncommon in the collections about London, where it is known by the name of *Theophrasta*, a genus which, although very distinct from this, we believe must be considered its co-ordinate.

In referring *Brexia* to the Natural Order Myrsineæ, we have been influenced by the following analogies. The æstivation of calyx and corolla is imbricate, as in Myrsineæ; the stamens are hypogynous, connected by a fleshy ring, and opposite the petals; the ovary is one-celled, with an indeterminate number of ovules; and the embryo is said to be immersed in copious albumen; all of which characters are quite those of Myrsineæ. We are not aware that this resemblance has been previously indicated.

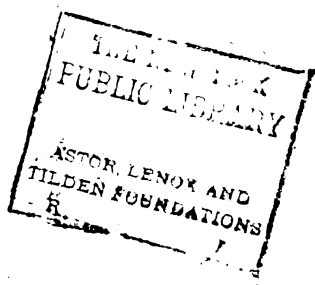
A fine stove plant, supposed to be a native of Madagascar.

J. L.

## NOTE.

At fol. 854, we took an opportunity of censuring what appeared to ourselves and others an improper change in the nomenclature of a plant well known in gardens. In the last number of the *Botanical Magazine*, the alteration to which we alluded, is explained by stating, that there is sufficient evidence in Mr. Lambert's Herbarium, and the second volume (*unpublished*) of the *Flora Indica*, that the name supposed by us to belong to the plant in question, has, in fact, been applied to a different species by Dr. Wallich. This assertion being made from the personal observation of our friend Dr. Sims, we cannot hesitate to place full reliance upon its accuracy. But if it had depended upon the authority of a work just published, called "*Prodromus Floræ Nepalensis*," we would have plainly said, that the general character of that work is not such as to entitle the author of it to our credence. Under the pretence of publishing the collection of Nepalese plants, formed by Dr. Hamilton during his residence in India, the writer of this book has had the extraordinary assurance to incorporate with them a considerable proportion of the plants collected in Nepal by Dr. Wallich, by him confided to individuals in this country, and at this moment publishing under that distinguished and indefatigable Botanist's own direction in India. What object can have been expected by this production we are unable to understand. The act cannot be justified upon the ground of the necessity of a work upon Nepalese plants; firstly, because, as we have already said, such a publication is at this moment in activity under the proper authorities in India; and, secondly, because such supposed necessity is not to be supplied by an imperfect account of something like a fourth or fifth part of the vegetation of the country. We do not suppose the Honourable Court of Directors of the East India Company, to whom this production is dedicated, will feel much flattered by being made the patrons of a work which is not only thus injurious to their servants, but written in so strange a Language, that we can scarcely guess at its name, unless, indeed, it be a specimen of some new kind of Latin, which may be written "with great facility, after three lessons of an hour each," without the incumbrance of previous education. That the author of this work should have had the vanity to suppose himself more competent to form an opinion upon Indian plants than Indian Botanists themselves, is what we, at least, never doubted; but that men of sense and character should be found in this country ready to countenance such a feeling, is most incredible and ridiculous.

How far Dr. Hamilton is complimented by the manner in which his plants have been published; what opinion that gentleman or others may form of the talent and modesty with which they have been arranged; why the numerous species from Dr. Hamilton himself, already extremely well published by the learned *President of the Linnean Society*, should, with the exception of the few in Exotic Botany, never have been referred to; upon what pretence the published names of Dr. Wallich, De Candolle, and others, should have been, in numerous instances, altered; and why, of the Nepalese plants in the Herbaria in London, few besides species of the most obvious character and easy determination should have been selected for the display of Mr. David Don's learning and abilities; these are all points well deserving the consideration of Botanists.





M. Hunt del. Pub. by R. Walp. 176.

March 1. 1825.

J. W. H. W.

# SESBANIA picta.

## *Spotted Sesbania.*

DIADELPHIA DECANDRIA.

Nat. ord. LEGUMINOSÆ.

*SESBANIA, Pers. Flores racemosi. Calyx dentibus æqualibus. Legumen elongatum, subcylindraceum, læviusculum, bivalve. Pers. syn. 2. 316.*

*S. picta; foliis pinnatis, pinnulis linearibus obtusis, floribus racemosis, vexillo posticè picto. Pers. syn. 2. 316,*

*Æschynomene picta. Cav. ic. IV. t. 314.*

*Sesbania gracillima. Hort.*

Caulis teres, oryziæ, glaber, uti tota planta; ramis alternis. Folia alterna, pinnata, pinnulis utrinque ferè 18, linearibus, obtusis, aliquando emarginatis,  $\frac{1}{4}$  pollicem longis; stipulæ subulatæ, marcescentes. Flores racemosi, racemis pendulis; pedunculi partiales ad bracteolam brevem axillares, et prope calyces 2-bracteati; bracteolis subulatis deciduis. Cal. glaber, campanulatus, ore 5 dentato, dentibus brevibus subæqualibus. Corolla lutea papilionacea; vexillum orbiculatum, emarginatum, erecto-reflexum, posticâ superficie variegatum punctis maculisque minimis nigricantibus; alæ ovato-lineares, basi falcatæ; carina alis brevior basi et apice bifida. Staminum filamenta 10, alba, quorum unicum liberum, reliqua in vaginam fissam connexa, apice libera; antheræ ovate, fuscæ. Germen lineare, teres. Stylus subulatus, ascendens; stigma simplex. Legumen arcuatum, subteres, articulatum, articulis 18, plus minusve. Semina ovata. Cav. l. c.

This is a very pretty plant, said by Cavanilles to be a native of New Spain and the Cape of Good Hope. The latter locality is probably erroneous. The plant from which our figure was taken was raised at Mr. Colvill's Nursery, from seed received from Mr. D. Lockhart of Trinidad, under the name of *Sesbania gracillima*. The plants are now six or seven feet high, and coming into full flower. They require the heat of the stove.

*Stem* rounded, as high as a man, smooth, as are all parts of the plant; *branches* alternate. *Leaves* alternate, pinnate, with about 18 pinnulæ on each side, which are linear, obtuse, sometimes emarginate,  $\frac{1}{4}$  an inch long; *stipules* subulate, withering. *Flowers* in pendulous racemes. *Bractes* subulate, deciduous. *Cal.* smooth, campanulate, with five short nearly equal teeth. *Standard* of the pale yellow corolla round, emarginate, from erect reflexed, mottled behind

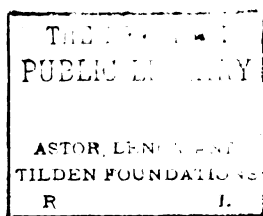
with very small black dots and spots. *Ovary* linear, rounded. *Style* subulate, ascending. *Stigma* simple. *Pod* bowed, nearly round, with 16 joints, more or less. *Seeds* ovate.

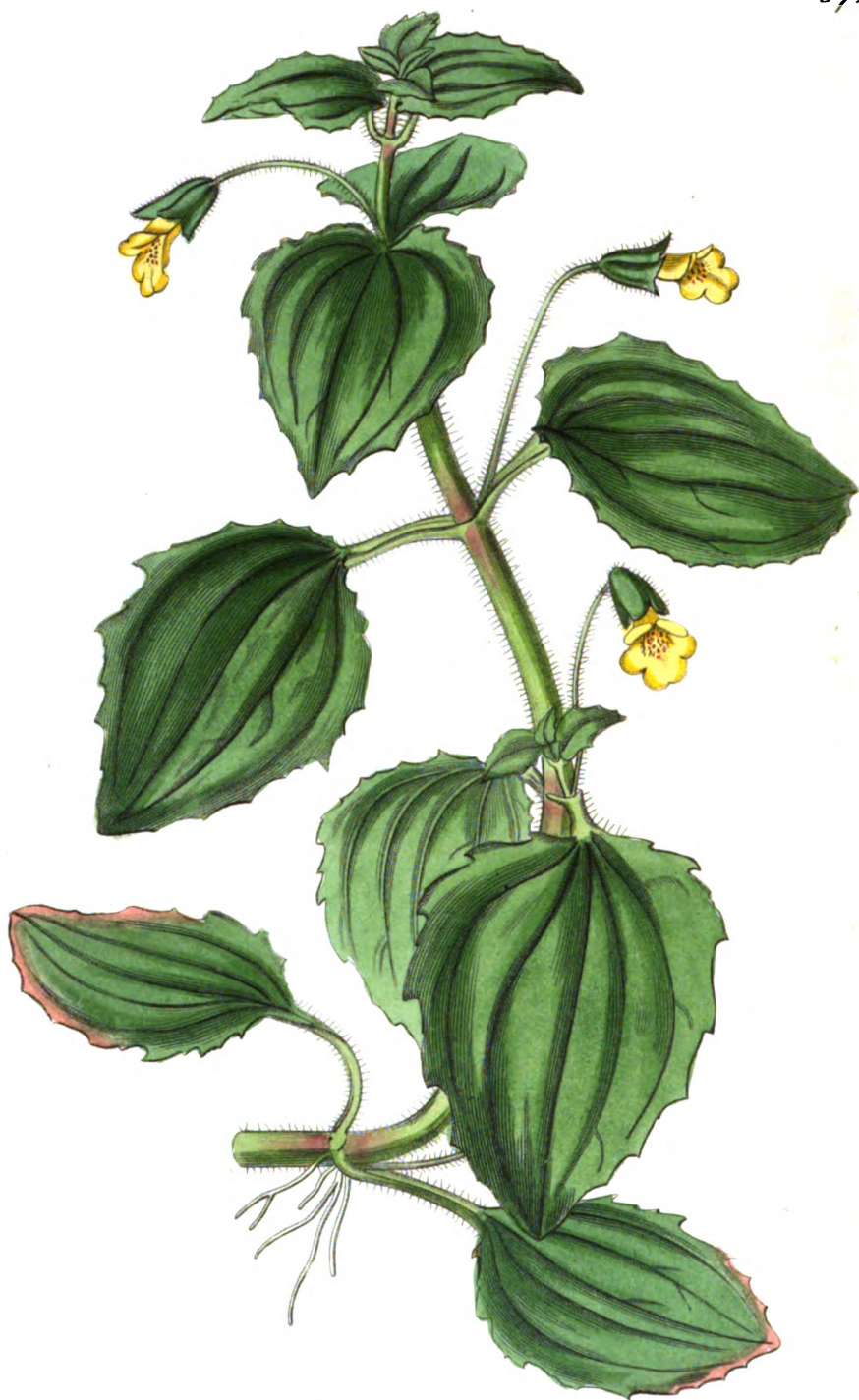
J. L.

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#### NOTE.

In the last leaf of Mr. David Don's "*Prodromus Floræ Nepalensis*" it is affirmed, that the *Iris Nepalensis*, communicated to us by Sir Abraham Hume as a native of Nepal, and published as such at our fol. 818, upon that gentleman's authority, is an European plant scarcely different from *Iris germanica*. Upon reference to the official documents which were sent to England with the plant in question, from the Botanic Garden, Calcutta, it appears that it was packed up, with other roots, on the 19th of November, 1821, and sent, under the name of *Iris Nepalensis* of Wallich, by William Leycester, Esq. then in charge of the garden, to Jacob Bosanquet, Esq. by whom it was presented to Sir Abraham Hume. We should not have felt it necessary to notice Mr. Don's assertion, if we ourselves had been alone concerned; but we cannot pass in silence an attack upon the veracity of a gentleman of rank, who has always been one of the most distinguished patrons of the Arts and Sciences in this country.





*Mimulus aurantiacus*

*San Diego, Chaparral, W. P. Kendall, March 1, 1825.*

*J. Walp. sc.*



## MIMULUS parviflorus.

*Small-flowered Mimulus.*

DIDYNAMIA ANGIOSPERMIA.

Nat. ord. SCROPHULARINEÆ.

**MIMULUS.** L. Calyx tubulosus, angulatus, 5-dentatus. Corolla personata; latio superiore bilobo, lateribus reflexo; inferiore trifido, laciniis subæqualibus. Stamina 4, didynama. Antherarum lobis divaricatis. Stigma bilamellatum. Capsula calyce inclusa, bilocularis, loculicido-bivalvis; valvis integris. Herbæ erectæ, procumbentes, aut repentes, rarius frutices. Folia opposita. Flores axillares, solitarii, subspicati, aut rarius corymbosi, ebracteati, flavi, aurantiaci, violacei, aut albi. Kunth synopsis. 2. 127.

*M. parviflorus*, procumbens, caule terete radicante piloso, foliis cordato-ovatis dentatis 5-nervibus, petiolis pilosis, pedunculis pilosis folio brevioribus.

Herba annua, decumbens, ad nodos radicans; caulibus teretibus, carnosis, pilosis. Folia opposita, cordato-ovata, petiolata, serrato-dentata, 5-nervia, avenia, plana, pubescentia, petiolo amplexi-cauli, plano, canaliculato. Flores solitarii, axillares, longe pedunculati, pedunculo foliis brevioris filiformi, glanduloso-piloso. Calyx campanulatus, pentagonus, 5-lobus, pilosus, lobis compressis, patentibus, superiore multo majore, falcato. Corolla tubulosa, infundibularis, calyce paulo longior, subtus bisulcata, 5-loba, lutea, bilabiata, lobis 3, rotundatis, æqualibus, inferiore emarginato, paulo majore: fauce pilosâ, sanguineo maculata, lineis duabus elevatis. Stamina 4, inclusa, didynama, basi tubi inserta; filamenta filiformia; antheræ glabræ, hippocrepice, connectivo gibboso. Ovarium biloculare, polyspermum, disco nullo. Stylus filiformis. Stigma bilobum, lobis æqualibus, planis, tenuibus, dilatatis, paulo laceris: inferiore recurvo.

A pretty new hardy annual species of *Mimulus*, raised in the garden of the Horticultural Society, from Chilean seeds presented by Francis Place, Esq. Our drawing was made during last summer.

It is extremely difficult to ascertain whether this plant be actually undescribed or not. It certainly is not referable to any published species, if we are to judge of them by specific characters and descriptions only; but it is not impossible, that as nearly all the South American species have been described from dried specimens, which in plants so delicate and vascular as this is, are much changed in their preparation, some allowance should be made for that cir-

cumstance. There being no better materials in this country than printed documents, we take those as they are; and will indicate the points in which our plant differs from any of the published species. From *M. glaberrimus* it differs, in not having a square stem, and in being hairy: from *M. andicola* in its flower-stalk being shorter than the leaves, and its stem not being square; and from *M. pilosiusculus* in stem, and in the outline of its leaves. To one of the two last we nevertheless suspect it may be referable.

A decumbent *annual*, rooting at the joints; "with rounded, hairy, fleshy stems. *Leaves* opposite, cordate-ovate, stalked, toothed, 5-nerved without other veins, flat, downy, with a stem-clasping, flat, pilose, channelled petiole. *Flowers* solitary, axillary, on long stalks, which are shorter than the leaves, filiform, and covered with glandular hairs. *Calyx* campanulate, 5-cornered, 5-lobed, hairy; its lobes compressed, spreading, the upper being much larger than the rest, and falcate. *Corolla* tubular, funnel-shaped, a little longer than the calyx, with two furrows beneath, 5-lobed, yellow, 2-lipped: lobes  $\frac{3}{4}$ , rounded, equal, the lower emarginate, and a little the largest. *Orifice* hairy, with two elevated lines, and sprinkled with blood-coloured dots. *Stamens* 4, included, didynamous, inserted at the base of the tube; *filaments* filiform; *anthers* smooth, shaped like a horse-shoe, with a gibbous connectivum. *Ovary* 2-celled, many-seeded, with no discus. *Style* filiform. *Stigma* 2-lobed, with equal, flat, thin, dilated lobes of which the lowest is recurved.

J. L.





M. Hart del.

Printed by J. Walpole 170, Piccadilly, March, 1825.

J. Walpole.

HIBISCUS *Richardsoni*.*Rough-leaved shrubby Bladder-Ketmia.*

MONADELPHIA POLYANDRIA.

Nat. ord. MALVACEÆ Juss. D.C. Prodr. 1. 420.

HIBISCUS. L. Vide *suprà* fol. 808.

Sect. VIII. *Trionum*, Medic. Carpella polysperma. Semina glabra. Corollæ expansæ. Involucellum polyphyllum. Calyx deraum vesiculosus inflatus. Dec. 1. c.

H. *Richardsoni*, suffruticosus, foliis hirsutis quinquelobis: lobis lineari-oblongis grossè dentatis; posticis nanis, calyce villosissimo involucro longiore.

H. *Richardsoni*. Sweet in *Colv. Cat.* ed. 3. ined.

Suffrutex 3-4 pedalis, caule erecto, terete, stellatim hirsuto, versus summum villosissimo. Folia 5-loba, rugosa, undique hirsuta, lobis lineari-oblongis, grossè dentatis, intermedio longissimo; posticis abbreviatis, pedunculo folio breviorè villosè. Flores solitarii, axillares, folio breviores. Involucra polyphylla, calyce breviora, foliolis linearibus villosis. Calyx campanulatus, 5 lobus, undique villis implexis strigosus. Corolla expansa, flava, fundo purpureo.

This beautiful addition to the *Trionum* section of *Hibiscus* was raised at Mr. Colvill's Nursery, from seeds collected by Mr. John Richardson, at Port Macquarrie, in New South Wales. We are informed by Mr. Sweet, that he has named it after its discoverer. We long ago received specimens of it from Mr. Charles Frazer, collected upon the banks of Nepean river.

It is half shrubby, growing three or four feet high during the summer; and, in the greenhouse, dying down within a foot of the ground in winter. It may be propagated by seeds, of which Mr. Colvill's plant ripened two capsules last summer. It flowers during the summer months.

*Stem* erect, round, covered with stellate hairs, which are very long towards the summit. *Leaves* 5-lobed, rugose, hairy on both sides; their lobes linear-oblong, coarsely toothed; the intermediate very long, those behind very much shorter. *Peduncle* villous, shorter than the leaf. *Flowers* solitary, axillary, shorter than the leaves. *Invo-*

*lucres* many-leaved, shorter than the calyx, with linear villous leaflets. *Calyx* campanulate, 5-lobed, shaggy all over with interwoven hairs. *Corolla* expanded, yellow, with a purple eye.

J. L.

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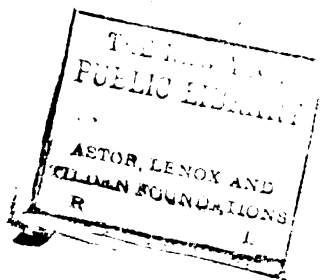
#### CORRIGENDA.

Fol. 862. In the generic character of *Glossula tentaculata*, for "*tripartita*," read "*bipartita*."

Fol. 865. In the generic character of *Nolana*, for "*conferruminata, nunc discreta*," read "*conferruminata nunc discretae*."

The reader is requested to correct these typographical errors, as they affect the meaning of particular passages.

At fol. 856 we stated, upon the authority of the *Hortus Bengalensis*, that *Cassia purpurea* is an annual. We are now informed by Mr. Sweet, that it is a shrub, three or four feet high.







J. Walp. sc.



AMARYLLIS solandræflora.  $\beta$ . vittata.

*Striped Amaryllis Solandræflora.*

HEXANDRIA MONOGYNIA.

Nat. ord. AMARYLLIDÆ.

AMARYLLIS. *V. supra*, vol. 1. fol. 23.

*A. solandræflora* ; 2-4-flora, perianthio infundibulari subregulari, tubo gracillimo intus nudo limbo multò longiore, stigmate obtusè 3-lobo. *Lindley*, coll. bot. t. 11.

$\beta$ . vittata.

Folia lorata, glaucescentia, sub anthesi erecta, scapo multoties breviora, postice recurva, margine paululum cartilagineo. Scapus cylindraceus, fistulosus, glaucus, subbipedalis. Spatha viridis, erecta, pedunculis duplò longior. Flores sulphurei, immaculati, pedicellati, cernui. Perianthium 9-unciale, infundibulare, subregularare, laciniis latis, ovato-lanceolatis, striatis: infimà angustiore; marginibus infra faucem nudam cum tubo connatis. Stamina declinata, fauce inserta, limbo paulo breviora, ea laciniis interioribus opposita longiora. Ovarium trigonum, 3-loculare, polyspermum. Ovula plana, disticha. Stylus filiformis, staminibus paulo longior. Stigma obtusè trilobum. *Lindl. l. c.*

A handsome variety of this most distinct species of *Amaryllis*, originally imported from Cayenne, about five years ago, by Mr. Brookes, of the Ball's Pond Nursery. It differs from the type of the species, principally, in having a faint crimson stain along the axis of the outer segments of the perianthium; and in the style being longer than the stamens.

For our figure we are obliged to James Henry Slater, Esq. of Newick Park, near Uckfield; from whose garden the plant was communicated some time ago\*.

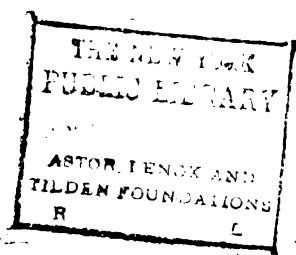
In the work from which our description has been extracted, it is stated, that "Notwithstanding the great and striking difference between this plant and *Amaryllis vittata*

\* In our article 867 under *Eranthemum strictum*, for John, read, James Henry Slater, Esq. Mr. Slater informs us he received that plant, through a friend, from the Botanic Garden at Calcutta.

in the flowers, there is an astonishing similarity in the leaves, by which alone the plants certainly cannot be distinguished."

*Leaves* lorate, somewhat glaucous, at the time of flowering erect, and much shorter than the scape, a little curved backwards, with a somewhat cartilaginous edge. *Scape* cylindrical, glaucous, fistular, about two feet high. *Spatha* green, erect, twice as long as peduncles. *Flowers* sulphur-coloured, without spots, stalked, cernuous. *Perianthium* nine inches long, funnel-shaped, somewhat regular, with broad, ovate-lanceolate, striated segments: of which the lowest is the narrowest; their edges united with the tube below the orifice, which is naked. *Stamens* declinate, inserted in the orifice, a little shorter than the limb, those opposite the inner segments longest. *Ovary* 3-cornered, 3-celled, many-seeded. *Ovules* flat, distichous. *Style* filiform, a little longer than stamens. *Stigma* bluntly 3-lobed.

J. L.





*Stenandrium* var. *Stenandrium* 1693 *Randall* Sp. 1 1825.

J. W. H. S.

ANTHERICUM canaliculatum.  $\beta$ . rufum.*Rufous Hairy Anthericum.*

HEXANDRIA MONOGYNIA.

Nat. ord. ASPHODELEÆ.

ANTHERICUM. *Supra* vol. 7. fol. 564.

*A. canaliculatum*; foliis subcarnosis pilosis ensiformi-triquetris latere angustiore canaliculatis, scapo simplice. *Hort. Kew. ed. 1.* 1.448.

*A. canaliculatum*. *Willd. sp. pl. 2.* 141. *Hort. Kew. ed. 2.* 2.269.

*Phalangium canaliculatum*. *Pers. syn.* 1.369.

$\beta$ . *rufum*; floribus rufo-vittatis pedicellisque pilosis.

*Anthericum canaliculatum*. *Bot. mag.* 1124.

Scapus *teres, pilosus*. Racemus *multiflorus*; pedunculi *teretes, glabri, vix unciales*. Bractæ *lanceolatæ, acuminatæ, sub anthesi pedunculo breviores, glabræ*. Petala *patula, alba, dorso sordide virescentia, semiuncialia*. Filamenta *subulata, alba, petalis breviora, hispidiuscula, tria alterna minus hispida*. Stylus *longitudine staminum*. *Hort. Kew. l. c.*

*Obs.* In varietate nostrâ scapus humilior, sepala dorso rufa pilosa, nec sordidè viridia, pedicelli pilosi, filamenta glabra.

We were not aware, that the subject of this article had been already published in the Botanical Magazine, until after our plate was in the hands of the colourers. As the drawing was made several years since by Mr. Sydenham Edwards, representing the plant in a more perfect manner, and in a different state from the figure in the Botanical Magazine, we hope to stand excused for the oversight.

From the original state of the species this variety differs, as has been already remarked by Mr. Ker, in the pedicels and interior of the flower being hairy, and marked with a rufous, not green stripe. We have therefore separated it, as a variety of which the characters are so distinct as to make it advisable that it should be permanently distinguished.

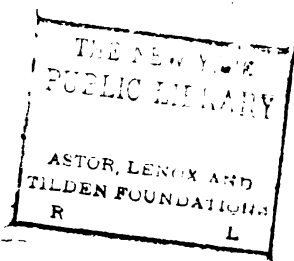
It is a native of the Cape of Good Hope, whence it was introduced, upon the authority of the Hortus Kewensis, in

1774. Its flowers appear, in the greenhouse, in March and April.

*Scape*, in the original variety, rounded, hairy. *Raceme* many-flowered, with rounded, smooth pedicels, scarcely an inch long. *Bracts* lanceolate, acuminate, about flowering-time shorter than the peduncles, and smooth. *Sepals* spreading, white, dull green at back, half an inch long. *Filaments* subulate, white, shorter than the sepals, a little hispid, the thin alternate ones less hispid. *Style* the length of the stamens.

In the present variety the scape is more dwarf, and, besides the other characters indicated above, the filaments are smooth.

J. L.





H. Mart. del. Pub. by

Ridgway 1829 Ac. cadillo, No. 1. 1825.

J. Mart. sc.



## HIBISCUS unidens.

*One-toothed Hibiscus.*

MONADELPHIA POLYANDRIA.

Nat. ord. MALVACEÆ Juss. D.C. Prodr. 1. 429.

HIBISCUS. L. Vide supra, fol. 806.

Sect. VI. *Abelmoschus*. Carpella polysperma. Semina glabra aut in dorso linea subvillosa. Corollæ expansæ. Involucella foliolis 8-15 integris constantia. Dec. l. c.

§ 1. *Caule tuberculis aculeato.*

*H. unidens*; caule sparsim aculeato et piloso, foliis glabriusculis eglandulosis grossè dentatis, nunc palmato-5-partitis, nunc subrotundis, floribus pedunculatis, involucelli foliolis calycis longitudine intus dente unico infra apicem appendiculatis.

Caules erecti, virides, pilis mollibus, recurvis vestiti, et aculeis parvis, sparsis, abdidis armati. Folia longissime petiolata, grossè dentata, glabriuscula, subtus eglandulosa, biformia; nunc palmato-5-partita; lobis lanceolatis; nunc subrotunda, indivisa. Petioli subtus aculeati, rigidi, foliis inferioribus multo longiores. Stipulæ membranaceæ, subulatae. Flores magni, sulphurei, in fundo fusco-purpurei: pedunculo molli, piloso, inermi, petiolo multo brevior. Involucelli foliola 8, hispida, patentia, calyci subæqualia, lineari-lanceolata, infra apicem paulò constricta, et ibi dente unico interiore aucta. Calyx 5-lobus, undique pilis mollibus recurvis, et aculeolis hispidus; lobis acuminatis, trinerviis. Corolla expansa, ad marginem undulato-crispa, citò marcescens. Ovarium ovatum, sericeum, 5-loculare, loculis 4-spermis, ovalis uniformibus glabris.

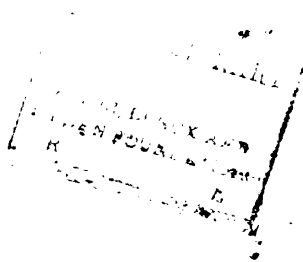
A new species of *Hibiscus*, raised at Mr. Colvill's Nursery, from Brazilian seed. To the *Hibiscus cannabinus* of the East Indies it is nearly related; but, independently of the geographical differences between our species and that plant, there are some curious external discriminative marks, by which the two are decidedly to be distinguished. In *Hibiscus cannabinus*, the leaf-stalks and lobes of the calyx are each furnished with a gland, and the leaves are not shorter than their stalks; in *Hibiscus unidens*, there is no gland upon either the stalks of the leaves, or the lobes of the calyx; and the petioles of the lower leaves are very long and rigid. In the latter the flowers are stalked, and

the leaves of the involucre have each a little tooth-like appendage upon their inner surface; while in the former the flowers are sessile, and there is no tooth-like appendage upon the involucre leaves.

Our drawing was made last summer, at Mr. Colvill's Nursery; where the plant was cultivated in the stove.

*Stems* erect, bright green, covered with soft recurved hairs, and small, scattered, whitish prickles. *Leaves* on long stalks, coarsely toothed, smoothish, without glands beneath, of two forms; sometimes palmate-5-parted, with lanceolate lobes; sometimes roundish, undivided. *Petioles* prickly beneath, rigid, much longer than the lower leaves. *Stipules* membranous, subulate. *Flowers* large, sulphur-coloured, brownish purple at bottom, with a soft, hairy, unarmed peduncle, much shorter than the petiole. *Leaflets* of the involucre 8, hispid, spreading, nearly equal to the calyx, linear-lanceolate, below the end a little contracted, and there furnished with a tooth-like appendage on their inner surface. *Calyx* 5-lobed, covered all over with soft recurved hairs, and hispid with little prickles; the lobes acuminate, 3-lobed. *Corolla* spread open, a little wavy at edge, quickly withering. *Ovary* ovate, silky, 5-celled, with four seeded cells, and smooth uniform ovules.

J. L.





*J. H. S. 1825*

*Pub. by J. H. S. 1825. Paris, 1825.*

*J. H. S.*

## ERANTHEMUM crenulatum.

*Crenulate Eranthemum.*

DIANDRIA MONOGYNIA.

Nat. ord. ACANTHACEÆ.

ERANTHEMUM. *V. supra.* vol. 10. fol. 867.

*E. crenulatum*; suffruticosum erectum glaberrimum, foliis ovato-lanceolatis acuminatis obsoletè crenulatis, spicâ verticillatâ nudâ terminali.

*E. crenulatum.* *Wall. in litt.*

Suffrutex 1-1½-pedalis, undique glaberrimus, erectus, ramis teretibus. Folia petiolata, ovato-lanceolata, obsoletè crenulata, acuminata, glabra, supra atro-viridia, subtus pallida. Spica terminalis, erecta, floribus in verticillis nudiusculis, distantibus, dispositis; verticillo inferiore foliis 2 parvis bracteato. Flores pallidè lilacini. Calyx et bracteæ vix ullam partem corollæ tegentes. Corolla hypocrateriformis, tubo gracili, arcuato, clavato, laciniis subæqualibus, ovatis, planis fere triplo longiore. Stamina inclusa.

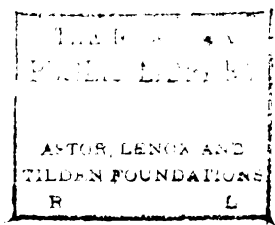
This pretty little species of *Eranthemum* was sent to England in 1824, by Dr. Wallich, under the name we have adopted; and a living plant was presented by the Honourable Court of Directors of the East India Company, to the Horticultural Society; in whose garden, at Chiswick, our figure was taken in October last.

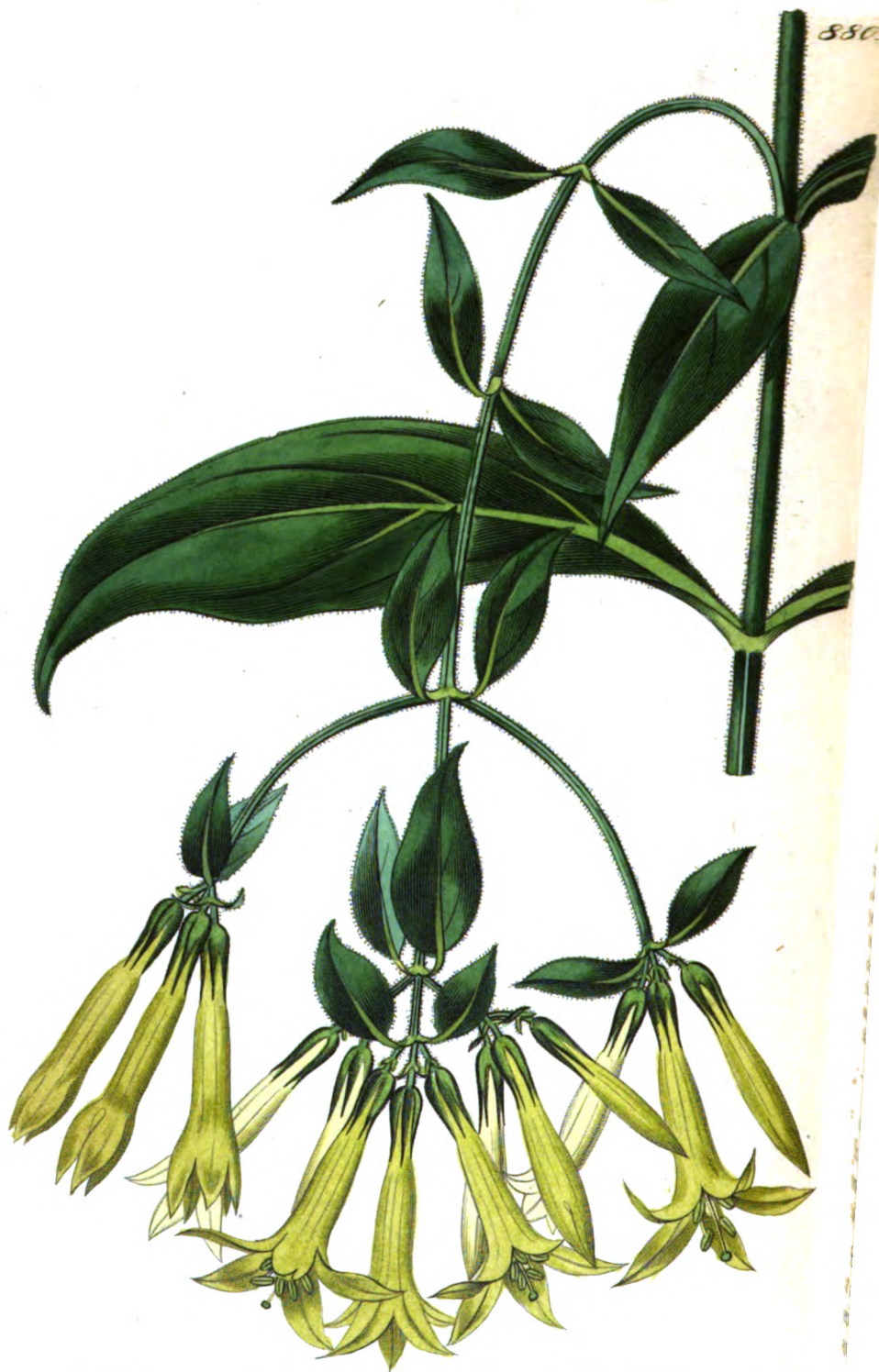
It appears distinct from any of the species described in the *Flora Indica*, and is, we believe, a native of Sylhet. In this country it flowers, in the stove, during the winter months; and is propagated by cuttings.

An erect under-shrub, from a foot to a foot and half high, with round branches. *Leaves* stalked, ovate-lanceolate, obsoletely crenulate, acuminate, smooth; above dark-green, beneath paler. *Spikes* terminal, erect, with the flowers disposed in nearly naked distant whorls; the lowest whorl being subtended by two small leaves. *Flowers* pale lilac. *Calyx* and *bracteæ* scarcely covering any part of the corolla. *Corolla* hypocrateriform, with a slender, bowed, clavate tube, nearly three times as long as the almost equal, ovate, flat segments. *Stamens* included.

J. L.







" Karl Sch.

Pub. by J. Treasurer 1899, Recd. by Ap. 1. 1825.

J. W. H. a



# LISIANTHUS longifolius.

## Long-leaved Lisianthus.

PENTANDRIA MONOGYNIA.

Nat. ord. GENTIANÆ.

**LISIANTHUS**, L. *Calyx* subcampanulatus, quinquefidus; laciniis margine diaphanis et incumbentibus. *Corolla* infundibuliformis; limbo 5-fido, patente, æquali; fauce imberbi. *Stamina* 5, paulo inæqualia, ascendentia (?). *Antheræ* sagittatæ. *Stylus* elongatus. *Stigma* bilamellatum. *Capsula* bilocularis, septicido-bivalvis. *Semina* angulata, haud marginata. —Herbæ, rariùs frutices, foliis oppositis, subsessilibus, integerrimis; floribus terminalibus, solitariis, spicatis, corymbosis, umbellatis aut paniculatis, viridibus, cærulescentibus, purpurascensibus, aut flavis. Kunth. synops. 2. 270.

*L. longifolius*; foliis lanceolatis acutis pubescentibus, caule terete. Willd. *sp. pl.* 1. 826.

*Rapunculus* fruticosus linifolius, &c. *Sloane jam.* 58. *hist.* 1. p. 157. t. 101. f. 1.

*Lisianthus* erectus foliis lanceolatis, floribus singularibus terminalibus. *Browne jam.* 157. t. 9. f. 1.

*L. longifolius*. *Linn. mant.* 43. *Lam. ill.* t. 107. f. 1. *Pers. syn.* 1. 281. *Ait. Kew. ed.* 2.

Suffruticosa, ramosa, 2-pedalis. Caules teretes, glanduloso-pilosi. Folia opposita, lanceolata, petiolata, pubescentia (præcipuè subtus). Stipulæ margo integer inter folia. Flores terminales, subterni, ad basin bibracteati. Calyx inferus, pentaphyllus, sepalis angustis, acutis, dorso carinatis, margine membranaceis. Corolla pallide lutea, infundibuliformis, versus basin constrictus, sursum paulo ampliatus, 5-lobus, lobis ovato-lanceolatis, acutis, patentibus. Stamina ascendentia, corollæ longitudine. Antheræ ellipticæ. Stylus filiformis, corollæ longitudine. Stigma capitatum, bilobum. Capsula ovata, acuta, calycis longitudine, stylo persistente, non spiritaliter torto, mucronata.

Our drawing of this species of *Lisianthus* was made at Mr. Lee's Nursery in August last. It is a pretty half-shrubby stove plant, producing its bright yellow flowers in abundance, and easily propagated by cuttings.

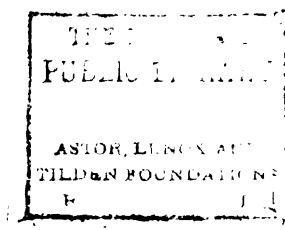
Said to have been introduced from Jamaica, in 1793; but not often seen in collections in this country. The specific name has not been very happily applied.

We perceive no difference between the cultivated plant and our wild specimens from Jamaica, beyond a greater degree of pubescence upon the latter.

“ This elegant little plant is not uncommon in the road to Sixteen Mile Walk, and is frequently met with in the mountains of St. Ann's. It grows in a dry, sandy, but cool soil. The whole plant makes an elegant appearance in the woods.”—*Browne*.

Half-shrubby, branched, about two feet high. *Stems* round, covered with glandular hairs. *Leaves* opposite, lanceolate, stalked, pubescent, especially beneath. *Stipules* an entire rim between the leaves. *Flowers* terminal, about three, with two minute bracts at the base. *Calyx* inferior, 5-leaved; *sepals* narrow, acute, keeled at back, with a membranous edge. *Corolla* pale yellow, funnel-shaped, contracted towards the base, a little enlarged upwards, and 5-lobed; the *lobes* ovate-lanceolate, acute, spreading. *Stamens* ascending, the length of corolla. *Anthers* elliptical. *Style* filiform, the length of corolla. *Stigma* capitate, 2-lobed. *Capsule* ovate, acute, the length of calyx, pointed with the persistent style, which is not spirally twisted.

J. L.





## CATHARTOCARPUS Bacillus.

*Four-leaved Cathartocarpus.*

## DECANDRIA MONOGYNIA.

Nat. ord. CÆSALPINIÆ. R. Br.

**CATHARTOCARPUS.** Pers. (1805). Bactyrilobium W. (1809).  
*Calyx* 5-partitus, deciduus. *Corolla* regularis, 5-petala. *Filamenta* inferiora arcuata. *Legumen* longum, teres, lignosum, pluriloculare: loculis pulpâ fartis. Pers. syn. 1. 459.

*C. Bacillus*; foliis bijugis ovatis obliquis, glandula obtusa inter infima, racemis axillaribus pedunculatis, siliqua terete longa. Lin. suppl. 231. sub Cassia.

*Cassia bacillaris*, Willd. sp. pl. 2. 514. Hortus Bengalensis 31. Link. enum. ber. 1. 406.

*Cathartocarpus Bacillus.* Pers. syn. 1. 459.

Frutex duodecim pedum glaberrimus. Folia alterna, petiolata, bijuga. Foliola latere interiore obliqua, utrinque glaberrima, inferiora exqu岸te ovata, superiora magis elongata. Glandula conica, obtusa, inter foliola inferiora. Stipulæ nullæ, (minimæ, subulatæ, deciduæ). Racemi axillares, solitarii, pauciflori, erecti. Pedicelli dependentes, angulati. Flores aurantiaci, mediocres. Legumen omnino *C. fistulæ*, ut distingui nequeat, subcurvum, cylindricum, glaberrimum, acumine filiformi terminatum, longitudine pedali, interius isthmis interceptum, quod externe tamen non apparet. L.

Our drawing of this plant was made many years ago, by the late Mr. Sydenham Edwards; but we do not know in what collection. It has not been figured previously, and does not appear in the last edition of the Hortus Kewensis. It is a shrubby plant, native of Surinam; whence specimens were sent to Linnæus, by Dalberg.

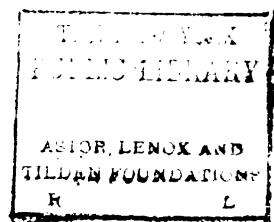
We observe, that Dr. Carey refers to this genus, besides the common *Cassia fistula*, *Cassia rhombifolia* of Roxburgh, and *C. nodosa* and *marginata* of the same botanist, with the *Cassia bacillus* of Gærtner. It is worthy of notice, that the last species is stated in the Hortus Bengalensis to be a Malayan plant, and the *C. bacillaris* of the Calcutta Garden (which we know, from specimens from that establishment, to be the plant before us), to be a species introduced to

the garden from Surinam, by Sir C. Younge. It therefore appears, that the Malayan *C. bacillus* requires some further examination, as it will probably be found to constitute an additional and unsuspected member of the genus *Cathartocarpus*.

We are not aware of the claim which Willdenow's name, *Bactyriobium*, has to be retained for this genus, in preference to that of *Cathartocarpus*; which seems to have been published four years previously.

A shrub twelve feet high, quite smooth. *Leaves* alternate, stalked, of two pairs. *Leaflets* oblique on their inner edge, smooth on both sides; the lower perfectly ovate, the upper more elongated. *Gland* conical, obtuse, between the lower leaflets. *Stipules* very small, subulate, deciduous. *Racemes* axillary, solitary, few-flowered, erect. *Pedicels* hanging down, angular. *Flowers* orange, middle-sized. *Pod* exactly that of *C. fistula*, so that it cannot be distinguished; somewhat curved, cylindrical, very smooth, terminated by a filiform point; more than a foot long, intercepted inside by partitions, which are not visible externally.

J. L.







## LIPARIS foliosa.

*Many-leaved Liparis.*

## GYNANDRIA MONANDRIA.

*Nat. ord. ORCHIDÆ. Sect. V. Malaxidæ. Lindl. supra, fol. 825, in textu. Anthera terminalis, opercularis, decidua. Pollinia 2, v. 4 per paria coherentia, cereacea, filo et glandulis nullis.—Herbæ sæpissimè terrestres, foliis membranaceis. Scapi terminales. Flores herbacci, inconspicui. Labellum sæpius posticum.*

*LIPARIS, Rich. Labellum planum, explanatum, integrum, variè versum. Columna alata. Pollinia 4.*

*L. foliosa; foliis radicalibus inæqualibus lanceolatis integris acutis carnosius racemo subæqualibus, labello oblongo retuso, clinandrio integerrimo.*

*Herba terrestris, acaulis, bulbis nullis. Folia 3, v. 4, suberecta, crassa, oblongo-lanceolata, subcomplicata, glaberrima, acuta; ultimo spicæ longitudine; extus ad basin foliis duobus abortivis vaginata. Racemus terminalis, erectus, 8-12-florus. Flores parvi, virides, distantes, undique versi. Ovarium bractea multoties longius, cum pedicello articulatum. Perianthium explanatum, sepalis liberis, subæqualibus, lineari-lanceolatis, reflexis; labello viridi-luteo, libero, oblongo, erecto-patente, integro, retuso. Columna tenuis, erecta, libera, marginata, clinandrio marginato, integro. Anthera bilocularis, terminalis, opercularis, decidua. Pollinia 4, cereacea, filo nullo, v. saltem citissimè obsoleto.*

For this curious new species of *Liparis* we are obliged to Robert Barclay, Esq. by whom it was received from the Isle of France in 1823. Our drawing was made last August, from a plant cultivated in the stove of that gentleman's collection; which is unquestionably the most extensive and useful ever formed by a private individual in this country.

The genus *Liparis*, which was established by the late M. Richard upon the *Ophrys Lœselii* of Europe, has now assumed an extent which certainly could not have been contemplated by that most excellent and learned botanist, who appears to have been acquainted only with the European *Ophrys* and the *Malaxis liliifolia* of N. America.

The following is the arrangement which we propose for the ten species of *Liparis*, at present known to us:

*LIPARIS*, Richard. (Genus *Malaxide certissime distinctum*. R.)

Sect. I. *Folia membranacea. Terrestres.*

1. *L. Löslii*, Rich.  
*Ophrys Löslii*, L.  
*Malaxis Löslii*, Smith.  
*Hab.* in Europæ borealis palustribus. (v. v. sp.)
2. *L. liliifolia*, Rich.  
*Ophrys liliifolia*, Bot. rep.  
*Malaxis liliifolia*. Br. in Ait. Kew. ed. 2.  
*Hab.* in Americæ septentrionalis palustribus. (v. v. sp.)
3. *L. nepalensis*; foliis oblongis acuminatis membranaceis, caudice repente bulboso, sepalis interioribus tenuissimis, labello acuminatissimo.  
*Hab.* in Nepaliâ, Wallich. (v. s. sp.) *Facies* *Liparidis liliifoliæ*.  
*Bulbi* foliorum vaginis marcescentibus tecti. *Folia* 2-na, plana, oblonga, acuminata, nervosa, membranacea, spicâ paulo breviora. *Sepala* filiformia, tenuissima; *labello* maximo, obovato, acuminatissimo.
4. *L. flavescens*.  
*Malaxis flavescens*. Pet. Th. orch. afr. t. 25.  
*Hab.* in Mauritio, et Insulâ Borboniæ.
5. *L. purpurascens*.  
*Malaxis purpurascens*. Pet. Th. l. c. tt. 26 et 27.  
*Hab.* in Mauritio, et Insulâ Borboniæ.
6. *L. bituberculata*.  
*Cymbidium?* *bituberculatum*. Hooker, ex. fl. t. 116.  
*Hab.* in Nepaliâ (v. s. c. in herb. Hooker).

Sect. II. *Folia carnosa. Parasiticæ.*

*Cestichis* Pet. Th. et Lindl. supr. 837, in textu.

7. *L. foliosa*. Supra.  
*Hab.* in Mauritio.
8. *L. disticha*.  
*Malaxis disticha*. Pet. Th. l. c. t. 89.  
*Hab.* in Mauritio et Insulâ Borboniæ.
9. *L. cæspitosa*.  
*Malaxis cæspitosa*. Pet. Th. l. c. t. 90.  
*Hab.* in Mauritio et Insulâ Borboniæ.
10. *L.?* *reflexa*.  
*Cymbidium reflexum*. Brown, prodr. 331.  
*Hab.* in Novâ Hollandiâ ad portum Jackson (v. s. sp. sine pollinibus).

At our folio 825 we have noticed the other genera of *Malaxideæ*, to which we have at present none to add.

J. L.

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A. Harb. del.

Pub. by J. Ridgway 189. Focadilly May. 1. 1825.

J. Walter del.

# CALLICARPA rubella.

## *Pink-flowered Callicarpa.*

TETRANDRIA MONOGYNIA.

Nat. ord. VERBENACEÆ.

CALLICARPA. *Suprà* vol. 10. fol. 864.

*C. rubella*; foliis sessilibus obovatis acuminatis cordatis utrinque tomentosis, ultra medium dentatis, cymis pedunculatis bipartitis villosis.

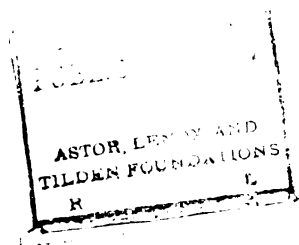
Suffrutex erectus, undique pilosus, in ollâ 2 pedalis. Rami teretes, densi, tomentosi. Folia decussata, plana, luteo-viridia, sessilia, obovata, acuminata, versis basin paululum constricta, basi cordata, ultra medium æqualiter dentata, subtilis magis tomentosa, 4-5 uncias longa, 2-2½ uncias lata. Cymi tomentosi, multiflori, dichotomi, in pedunculo semunciali insidentes. Bractæe subulatæ. Calyx parvus, densè tomentosus, obtusissimè 4-dentatus. Corolla rosea, brevis, infundibularis, calyce longior, laciniis erectis, obtusis. Stamina 4, exserta. Antheræ majusculæ, oblongæ, basi emarginatæ.

This species of *Callicarpa* is well distinguished from all others of the genus by the peculiar outline of its leaves, which are sessile and approaching almost to panduriform, with a long taper point. It was brought from China, in 1822, for the Horticultural Society, by the late Mr. John Potts. Our drawing was made in the Chiswick Garden, in May last.

A greenhouse *undershrub* about two feet high, propagated by cuttings. It is covered all over with hairs, which are for the most part simple. The *stems* are round, and closely furred. The *leaves* cross each other, are flat, yellowish-green, sessile, obovate, with a taper point, a little contracted towards the base, where they are cordate; beyond the middle they are regularly toothed, and are more densely downy below than above; their length is from 4 to 5 inches; their breadth from 2 to 2½. The *cymes* are downy, many-flowered, dichotomous, and are placed upon a stalk

about half an inch long. The *bracts* are subulate. The *calyx* is small, densely downy, with 4 very blunt teeth. *Corolla* pink, short, funnel-shaped, longer than the calyx, with erect, obtuse segments. *Stamens* 4, exserted. *Anthers* large, oblong, emarginate at base.

J. L







# ENKIANTHUS quinqueflorus.

*Red-edged Enkianthus.*

DECANDRIA MONOGYNIA.

Nat. ord. ERICÆÆ.

**ENKIANTHUS** Lour.—*Cal.* persistens, 5-fidus. *Corolla* campanulata, 5-fida, facili 5-partibilis, basi foveis 5 nectariferis *calycis* segmentis alternis. *Stamina* basi corollæ inserta, pilosa. *Antheræ* bicornes. *Ovarium* 5-loculare, polyspermum. *Stigma* simplex. *Capsula*.—*Frutices* Chinæ, foliis *sparsis*, floribus *terminalibus*, *bracteis* plurimis coloratis circumdati. *Flores* rosei.

*E. quinqueflorus*; foliis planis ovalibus acutis marginatis longè petiolatis, sepalis ovato-lanceolatis ovarii longitudine, foveis diaphanis coloratis.

*E. quinqueflorus*. Lour. *fl. cochinch.* 1.339? Sims *Bot. Mag.* 1649.

*Melidora pellucida*. Salisbury in *Hort. Trans.* 2.156.

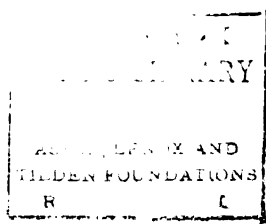
Suffrutex ramis nudis, erectis, subsimplicibus, ad apicem foliosis. Folia ovalia, utrinque acuta, plana, glabra, longè petiolata, ad margines et venas rubra. Umbellæ terminales, inter bracteas, et folia nova, numerosas, pallidas, spatulato-lanceolatas, flores æquantes. Flores solitarii, penduli in longos pedicellos clavatos, rosei. Calyx 5-fidus, laciniis ovato-lanceolatis, aristatis, glaberrimis. Corolla monopetala, campanulata, humerosa, 5-dentata, dentibus obtusiusculis, paululum ciliatis, ad basin foveis 5 nectariferis, diaphanis, coccineis, intus levigatis. Stamina 10, dimidiam corollæ longitudine, basi corollæ inserta, basibus dilatatis approximatis. Filamenta è latè basi subulata, pilosa. Antheræ glabræ, bicornes, poro duplici apicis dehiscentes. Ovarium oblongum, 5-loculare, polyspermum. Stylus persistens, filiformis, corollæ longitudine. Stigma simplex.

The genus *Enkianthus* was instituted by Loureiro with a character which, from the singular manner in which that worthy Botanist understood the parts of fructification, mistaking coloured bractæ for calyx, young leaves for corolla, and the real flower for the floscule of a compound aggregation of florets, was quite unintelligible to Willdenow, who undertook the task of publishing a German edition of the *Flora Cochinchinensis*. When, however, the plant of which the annexed figure is a representation first produced its flowers in England, in the year 1814, the identity between it and the *Enkianthus* was recognised by the learned Botanists under whose care the Banksian Herbarium was at that time placed; and the identification was not prevented

by the statement of Loureiro that his plant produced a berry, the fruit of the cultivated plant being at that time unknown.

It first produced its flowers in 1814, at Mr. Knight's Nursery, Chelsea, and drawings were made at the same time for the Horticultural Society, and for the Botanical Magazine. The figure made for the Horticultural Society gave rise to a paper upon the subject read before that body on the 5th April, 1814, by R. A. Salisbury, Esq., in which the plant was called *Melidora pellucida*, a name which, it was stated upon the authority of certain seeds given by a Spanish nobleman to Mr. Salisbury, had been applied to the plant by Noronha, a Spanish Botanist. In the month of June of the same year the figure made for the Botanical Magazine was published under the name of *Enkianthus quinqueflorus*. In neither of these publications was any notice taken of the fruit, although, if Loureiro's statement of its nature had been correct, the genus would barely have been distinguishable from *Arbutus*. That the Editor of the Botanical Magazine should not have adverted to it, would, of course, have arisen from his not having seen it; but that Mr. Salisbury, before whom it appears that fruit had been placed for examination, should have taken no notice of its nature, is more singular. When, however, it is remembered that M. Noronha, from whom Mr. Salisbury's seeds were said to have come, died more than twenty years before Mr. Salisbury could have received his seeds, it becomes probable that some mistake existed, as to the quarter from whence the seeds given to Mr. Salisbury by the Spanish nobleman above alluded to actually came; otherwise we cannot conceive how the difference between the real nature of the fruit, which is a *capsule*, and the reported nature of it, which according to Loureiro's account was a *berry*, could have escaped the observation of so experienced a Botanist as Mr. Salisbury. From Chinese drawings in the Banksian Library it appears that the fruit of *Enkianthus* is a *capsule* crowned by the *persistent style*, and not a *berry*, as stated by Father Loureiro.

J. L.





*Psychotria rubra* (Sw.) Schumacher. Drawn by J. Stuebel May 1825.

J. Hooker.

# ENKIANTHUS reticulatus.

## *Netted Enkianthus.*

DECANDRIA MONOGYNIA.

Nat. ord. ERICÆE.

ENKIANTHUS. Vide suprà vol. 11. fol. 884.

*E. reticulatus*; foliis oblongis utrinque acutis reticulatis breviter petiolatis, sepalis ovatis ovario multo brevioribus, foveis obscuris vix diaphanis.

Folia obovata, acuta, abruptè acuminata, in petiolo brevi crasso, acuminata, reticulata, non marginata. Bractæ magis lineares. Calycis dentes parvæ, acutæ, minutè ciliatæ, ovario multoties breviores. Corollæ majores; foveæ nectariferæ obscuræ, vix diaphanæ, et color minus splendens. Cetera *E. quinqueflori*.

In the last article we have made some remarks upon the generic character of this genus. We will now offer a few observations connected with its specific divisions.

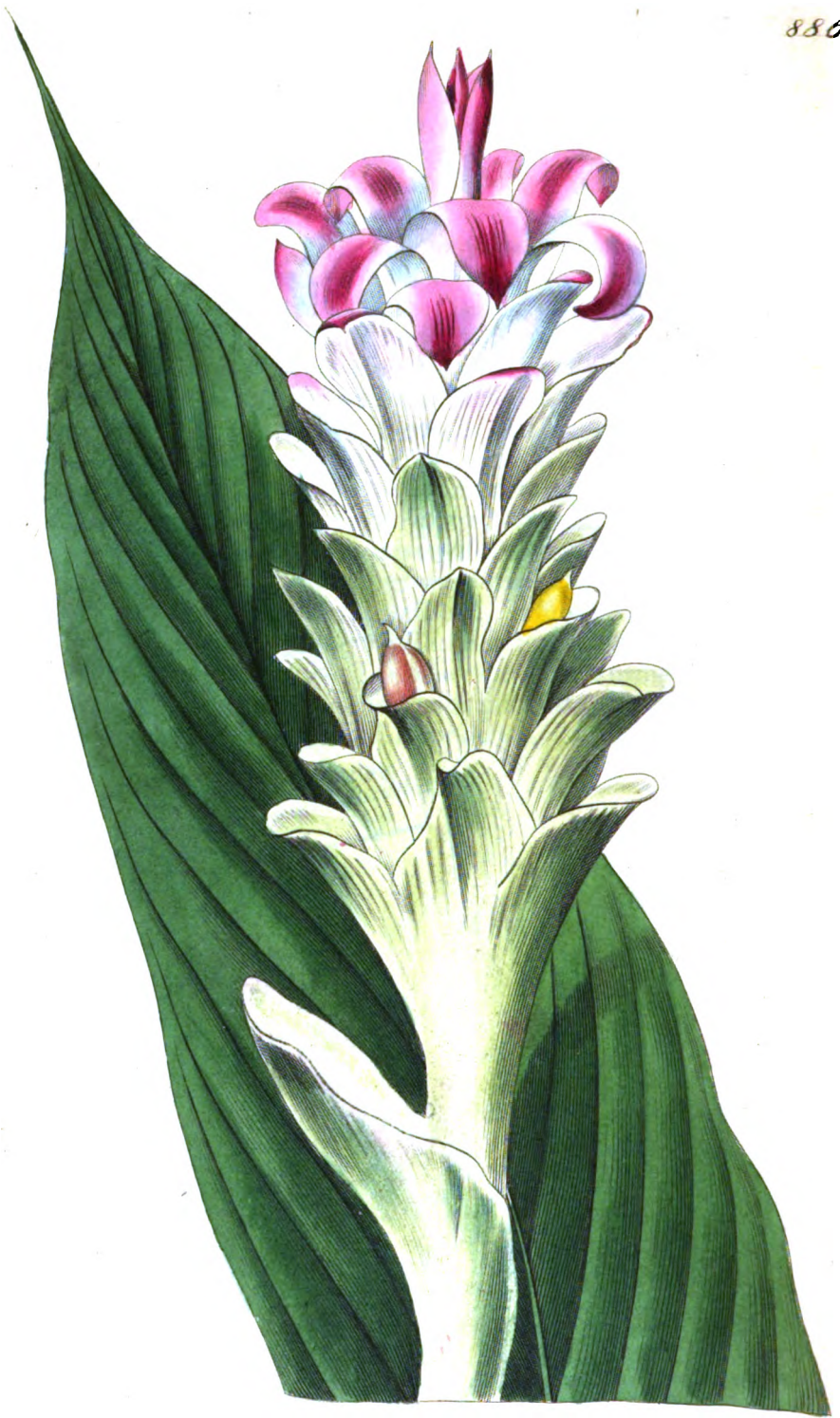
All the species of the genus published in Europe have been referred by us to *E. quinqueflorus*, but with some doubt. Whether the *E. quinqueflorus* of Loureiro was the same as either of the species now published, there is unfortunately in this country no means of discovering. For ourselves, we are unable to reconcile the statement of that author, that his plant formed a moderately sized tree, with the fact, that both our species are small bushes. But if we have a doubt as to the identity of either of our plants with the imperfectly described plant of the Portuguese Botanist, we do not experience much less uncertainty as to which of the species now described was intended by the Editor of the Botanical Magazine and Mr. Salisbury. From the attention of the draughtsmen of neither of these gentlemen having been directed to the niceties of difference between two unsuspected neighbouring species, it has arisen that the figures of both are referable to either of those now distinguished, and that the absence of internal evidence is badly supplied by evidence of another nature.

In the figure in the possession of the Horticultural Society, the leaves resemble those of our *E. quinqueflorus*, but the calyx is that of *E. reticulatus*. In the figure published in the Botanical Magazine, which was taken from the very same plant as that of the Horticultural Society, the calyx is of *E. reticulatus*, as are in some measure the leaves; but the nectarial foveæ are altogether those of *E. quinqueflorus*, and the length of the stamens that of neither species. In this uncertainty we have referred both the *E. quinqueflorus* of the Botanical Magazine and the *Melidora pellucida* of Salisbury to the most common plant in our gardens, which is certainly our *E. quinqueflorus*; trusting to the probability, that the plant of most frequent importation would be that from which the figures above referred to were taken.

Both these plants are natives of China. For the specimens from which our drawings were made, we are indebted to William Wells, Esq., of Redleaf. They are half-hardy plants, which thrive pretty well in a common conservatory, but which will not succeed in the open air during winter. They are to be propagated, but with difficulty, from cuttings. They flower in January and February.

J. L.





*Stachys latifolia* (L.) Benth. f. *latifolia* (L.) Benth.

J. Hillebrand



**CURCUMA longa.***Common Turmeric.***MONANDRIA MONOGYNIA.***Nat. ord.* SCITAMINEÆ.

**CURCUMA** L.—*Corolla* limbo utroque 3-partito. *Anthera* duplex, basi bicalcarata. *Capsula* bilocularis seminibus numerosis arillatis. *Embryo* simplex, albumine et vitello. *Fl. ind.* 1. 20.

**Sect. II. Spica centrali.**

*C. longa*; bulbis parvis cum tuberibus numerosis longis palmatis intus aurantiacis, foliis longè petiolatis lato-lanceolatis unicoloribus. *Fl. ind.* 1. 32.

Mangilla-Kua. *Rheede Hort. Mal.* 11. p. 21. t. 11.

*Curcuma domestica* major. *Rumph. amboin.* 5. p. 162. t. 67.

*Amomum Curcuma.* *Jacq. vind.* 3. t. 4.

*Curcuma longa.* *Retz. obs.* 3. 72. *Willd. sp. pl.* 1. 14. *Rom. et Schultes,* 1. 31.

After the elaborate descriptions of this plant which have been given by König in Retzius's *Observationes*, and by Jacquin in the *Hortus Vindobonensis*, it appears unnecessary to describe it anew.

Like the rest of its genus, it produces its flowers enveloped in an imbricated spike of bractæ, which in this species are pale yellow, with a slight tinge of pink at the top where the bractæ are destitute of flowers.

Its native country is not known with precision, but it is cultivated to a great extent in every part of Bengal, where it produces large crops of its deep yellow roots, which are known in England under the name of Turmeric.

Our drawing was made at Mr. Colvill's Nursery during last summer. It is an herbaceous plant, and requires the heat of the stove.

The following is stated in the *Flora Indica* to be the mode of cultivating this plant in Bengal :

“ The ground must be rich, friable, and so high as not

to be overflowed during the rainy season, such as the Bengalees about Calcutta call Danga. It is often planted on land where sugar-cane grew the preceding year, and is deemed a meliorating crop. The soil must be well ploughed and cleared of weeds, &c. It is then raised, in April and May, according as the rains begin to fall, into ridges, 9 or 10 inches high, and 18 or 20 broad, with intervening trenches 9 or 10 inches broad. The cuttings or sets, viz. small portions of the fresh root, are planted on the tops of the ridges, at about 18 inches or 2 feet asunder. One acre requires about 900 such sets, and yields in December and January about 2000lb. weight of the fresh root."

J. L.





"*Ant. del.*"

Pub. by J. Pickersley 169 Piccadilly May 1 1825.

J. W. H. & S.

**CAMELLIA japonica : *anemoneflora variegata*.**

*Chandler's Warratah Camellia.*

*Nat. ord. CAMELLIÆ. Decand. th. elem. ed. 1. 214.*

*THEACEÆ. Mirb. bull. phil. 3. 382.*

**CAMELLIA L.** *Calyx* imbricatus, nempe bracteis sepalisve nonnullis accessoriis cinctus. *Stamina* basi polyadelphea v. monadelphea. *Antheræ* ellipsoideæ. *Capsula* valvis medio septiferis axim triquetrum librum post dehiscientiam relinquuntibus. *Dec. prodr. 1. 529.*

*Camellia japonica. Vide supra vol. 1. fol. 22.*

v. *Staminibus* petaloideis imbricatis *petalis* involucriatis, flore sanguineo, albo, roseoque maculato.

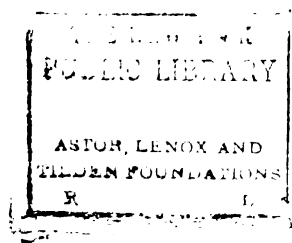
This fine variety of *Camellia japonica* has been lately raised from seeds produced at their Nursery, Vauxhall, by Messrs. Chandler and Buckingham. It was obtained from the Warratah Camellia crossed by the striped-flowered variety. It is remarkable for the vivid colour of its crimson flowers, mottled with white and rose; and is a subvariety of the Warratah Camellia.

We subjoin the character applied by M. De Candolle, to the Natural order Camelliæ, which he remarks approximates to Ternströmiaceæ in the structure of its flower, but differs from them in having seeds without albumen. We may add, that one of M. De Candolle's species of Camelliæ (*C. axillaris*), taken up from an early number of this work, is in fact referable to M. De Candolle's 5th division of Ternströmiaceæ, and does not belong to the genus *Camellia*.

“ *Sepals* 5-7, in æstivation imbricated, the inner often larger than the others, somewhat concave, coriaceous, deciduous. *Petals* 5-6-9, equal in number to the sepals, alternate with them, and often cohering at the base. *Stamens* several. *Filaments* filiform, at the very base monadelphous, or polyadelphous. *Anthers* ellipsoid or round, versatile. *Ovary* 1, ovate roundish. *Styles* 3-6 filiform, more or less united. *Capsule* 3-celled, 3-valved splitting, by the abor-

tion of many of the ovules 3-seeded: the valves (by an accidental alteration of dehiscence) either bearing the dissepiments in their middle, or forming them by the inflection of their edges. *Seeds* fixed to the inner edge of the dissepiments; large, thick, and few. *Albumen* none. *Embryo* with large, thick cotyledons replete with oil, plano-convex, and, as it were, jointed at the base; *radicle* very short, obtuse, opposite the hilum, drawn inwards, with a hardly conspicuous ascending plumule." *Dec. prodr.* 1. 529.

J. L.





*Mr. Hunt. del.* Pub by J. Ridgway 169 Piccadilly, May 1. 1825.

*J. Walter. sc.*



## ROSA grandiflora.

### *Large-flowered Scotch Rose.*

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#### ICOSANDRIA POLYGYNIA.

Nat. ord. ROSACEÆ.

ROSA. *Suprà* vol. 1. fol. 46.

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DIV. 5. Pimpinellifoliæ. *Setigeræ armis confertis subconformibus, v. inermes; ebracteata (rarissimè bracteata). Foliola ovata v. oblonga. Sepala conniventia, persistentia. Discus subnullus.*

*R. grandiflora*, setis ramorum nullis, aculeis subæqualibus distantibus, foliolis planis impubibus simpliciter serratis. *Lindl. Mon. Ros.* 53.

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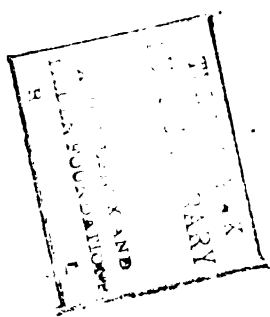
The native country of this fine Rose is uncertain. It is said to be an inhabitant of Siberia; but the *R. pimpinellifolia* of Bieberstein, which was supposed to be the same as this species, being referred in the Supplement of the Flora Taurico-caucasica to *R. altaica* of Willdenow, there is now no better authority for considering it a native of Asia than the vague report of gardeners.

It is nearly related to *Rosa spinosissima*, these two species differing, as we have stated elsewhere, nearly in the same manner as *R. involuta* and *Sabini*. The chief points of difference between this and *R. spinosissima* consist in its very large flowers, and in the want of setæ among the prickles of the branchlets. It is, moreover, a much more robust plant than any of the varieties of *R. spinosissima*, and has larger fruit.

Our drawing was made in the Garden of the Horticultural Society last Spring.

J. L.







10

Sub by J. Ridgway 169 Tuesday May 1 1825.

زیر، مکتبہ دارالکتاب

# IPOMÆA latiflora.

## Broad-flowered Ipomæa.

### PENTANDRIA MONOGYNIA.

Nat. ord. CONVULVULACEÆ.

IPOMÆA. Suprà vol. 1. fol. 9.

*I. latiflora* ; foliis cordatis glabris, pedunculis subtrifloris, corolla hypocrateriformi maxima. Römer et Schultes, *sp. pl.* 4. 240.

Convolvulus flore albo maximo s. Quamoclit flore maximo albo. *Plum. MSS.* 2. t. 52.

Convolvulus amplissimo folio cordiformi, flore albo maximo. *Plum. Cat.* p. 1. *Tourn. cor.* p. 83.

*C. grandiflorus.* *Jacq. vind.* 3. t. 69.

*Ipomæa grandiflora.* *Bot. repos.* t. 403.

Convolv. latiflorus. *Encycl. Method.* 3. p. 561.

Caules longissimi, maxime volubiles. Folia acuminata, magna, tenuia, lætè viridia, in petiolis longis canaliculatis. Pedunculi solitarii petiolis crassiores, teretes, ad divisiones angulati. Calyces parvi, è foliolis 5, tribus exterioribus longioribus acutis, interioribus obtusis. Corollæ niveæ, tubo longo, gracili, virente, limbo amplissimo, 5-poll. in diametro, stellâ pallidè virente. Capsula membranacea, turbinata, ferè magnitudine nucis, 3-4-sperma. Flores matutino tempore aperiuntur, meridiè evanidi. R. and S. l. c.

This plant seems to have been frequently confounded with the *Convolvulus grandiflorus* of Linnæus's Supplement, from which it has been well distinguished in the *Encyclopédie Méthodique* under the name here adopted. From that species it is distinguished by its leaves not being obtuse, by its annual stem, and by the leafstalks and stem not being downy. The *Convolvulus grandiflorus* is a native of the East Indies ; that now before us of St. Domingo and Martinique.

We have no memorandum of the place where our drawing was made, or of the individual to whom the publishers are obliged for it ; neither have we had any opportunity of seeing specimens of it.

It is stated to be a fine annual plant which cannot be cultivated without the heat of a stove.

In the Encyclopédie the *stems* are said to be very long, and much turning. *Leaves* acuminate, large, thin, bright green, on long channelled footstalks. *Peduncles* solitary, thicker than petioles, rounded, angular at the divisions. *Calyx* small, of 5 leaves, the 3 outer longer acute, the 2 inner obtuse. *Corolla* snow-white, with a long, slender, green tube, and a very large limb, 5 inches in diameter, with a green eye. *Capsule* membranous, turbinate, about the size of a nut, 3-4 seeded. *Flowers* opening in the morning, fading at noon.

J. L.

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NOTE—At fol. 872, we stated it to be our opinion that the genus *Brexia*, of which a new species was there published, would be found referable to *Myrsinæ*; in which we were influenced by a belief that the stamens were opposite the petals, and the ovarium unilocular. The specimens which we had examined were in a very imperfect state, and appear to have misled us; for Mr. Brown, who has had better opportunities of studying the genus, has kindly pointed out to us that the stamens are in fact alternate with the petals, and the ovarium not unilocular, in consequence of which the genus cannot be referred to *Myrsinæ*, but has yet to find its station.



89c



*A. H. B. & C. del.*

*Bot. Beecheyana, Beecheyana, Beecheyana*

*1840*



## RHODODENDRON arboreum.

*Tree Rhododendron.*

DECANDRIA MONOGYNIA.

Nat. ord. ERICEE.

RHODODENDRON. V. *suprà* vol. 1. fol. 37.

*R. arboreum*; foliis glabris lanceolatis subtùs tomentosis, capitulis terminalibus, capsulâ valvis 10, caule arboreo. *Smith Exotic Botany*, t. 9.

*R. puniceum*, *R. Hort. Beng.* 33.

Folia ovali-lanceolata, petiolata, acuta, 4-6 uncias longa,  $1\frac{1}{2}$  lata, *suprà* glabra, opaca, venis *immersis*, *infrà* argenteo lepidota venis glabris, prominentibus, nudis. Flores terminales, in corymbo brevi capitati; e gemmâ provenientes extus tectâ squamis oblongis, sensim intùs acutioribus, concavis, serie multiplici imbricatis, brunneis, ciliatis, interioribus sericeis. Bracteæ, cuique flori una, spatulato-lanceolatæ, arcuatæ, cymbiformes, albæ, sericeæ, florum longitudine, et cum floribus decedentes. Pedicelli breves, corrugati, furfuroso-pilosi. Calyx brevis, planiusculus, quinque-dentatus, pubescens. Corolla atrococcinea, carnosa, campanulata, basi 5-gibbosa, 5-loba,  $1\frac{1}{2}$  unciam longa, lobis rotundatis, undulatis, emarginatis, inferioribus majoribus, fauce maculis nigris aspersâ. Stamina 10, hypogyna, corollæ longitudine. Filamenta alba, carnosa, filiformia. Antheræ brunneæ, oblongæ, verosimiliter inversæ, et igitur apice poris duobus dehiscentes, ecalcaratæ. Pollen pallidè flavum, globosum, ternatim conglomeratum. Ovarium conicum, obtusum, lanatum, filamentis appressis 10-striatum, 10-loculare, placentis totidem polyspermis in axi carnosâ conferruminatis. Stylos albus, filiformis, longitudine staminum. Stigma capitatum, radius 10.

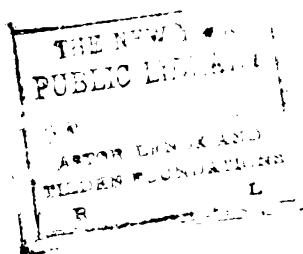
“ This most magnificent species of *Rhododendron* was first noticed by Captain Hardwicke, on a tour to Sireenagur, in 1796, growing in the mountainous tract called the Sewalic chain, which separates the plains of Hindostan, between 75° and 85° east longitude, from the Himmaleh Mountains. It is generally found in elevated situations, in forests of oak; the soil a rich black vegetable earth on a stony bed. The natives use the wood for making the stocks of matchlocks, or common musquets of Hindostan. The stem is columnar, 20 feet or more in height, 16 to 24 inches in diameter.” Thus far Sir James Smith, by whom this superb plant was first published in the *Exotic Botany*. The figure in that valuable work, taken in India from a wild specimen of the plant, agrees well with the subject of this page, in all respects, except in not representing any of the dark spots of the throat of the corolla, which are so conspicuous in the plant of our gardens.

It is now several years since the present plant was raised in this country from seed, but not till within a few weeks had it produced its blossoms, in any collection in Europe. In the beginning of April we were kindly supplied with the specimen from which our figure has been taken by Mrs. Alexander Baring, under the judicious management of whose Gardener at the Grange, Mr. Peter M'Arthur, the plant had expanded its flowers in all their beauty.

It may easily be imagined, that this will be, at some future time, the most conspicuous ornament of our shrubberies. In its own country, it thrives only in very cold districts, and with us, such young plants as have been established in the open air seem quite regardless of the severity of European winters.

Two very distinct varieties are to be met with in collections; the one with leaves silvery beneath, which is the kind now published; and the other with the under-surface of the leaves covered with a brown tomentum. These differences should be borne in mind by collectors, because while the one has now been proved to bear flowers of the kind here represented, it is by no means certain that the other is equally beautiful. All the native specimens which we have examined agree with the variety before us; of the ferruginous kind we have seen no wild specimen. It is not improbable, that it is indebted for its altered colour to one of two species not yet introduced, with pale flowers, and leaves ferruginous beneath.

*Leaves* oval-lanceolate, stalked, acute, 4-6 inches long,  $1\frac{1}{2}$  inch broad, above smooth and dull, with sunken veins, beneath silvery, with smooth prominent naked veins. *Flowers* terminal clustered in a short raceme, proceeding from a bud covered outside with oblong, imbricated brown scales, which gradually become more acute, membranous and silky as they approach the flowers, among which they are finally mixed, as in *Enkianthus*, in the form of bracts, which are placed singly under each flower, and are spatulate-lanceolate, bowed, cymbiform, white, silky, the length of flowers, and falling off with the flowers. *Pedicels* short, wrinkled, scurfy. *Calyx* short, flattish, 5-toothed, pubescent. *Corolla* dark scarlet, fleshy, campanulate, at the base with 5 prominences, 5-lobed,  $1\frac{1}{4}$  inch long, with rounded, wavy, emarginate lobes, of which the lowest are largest; the throat covered with dark purple spots. *Stamens* 10, hypogynous, the length of corolla; filaments white, fleshy, filiform. *Anthers* brown, oblong, apparently inverted, and therefore opening by two pores at the end, not calcarate. *Pollen* pale yellow, globose, clustered in threes. J. L.





*Alseodaphne*

*Alseodaphne* (Rubiaceae) *Alseodaphne* (Rubiaceae) *Alseodaphne* (Rubiaceae)

*Alseodaphne*

**BURCHELLIA parviflora.***Small-flowered Burchellia.*

PENTANDRIA MONOGYNIA.

Nat. ord. RUBIACEÆ.

BURCHELLIA. Suprà vol. 6. fol. 446.

*B. parviflora*; foliis ovali-lanceolatis glabriusculis basi subcordatis, antheris medio tubo insertis.

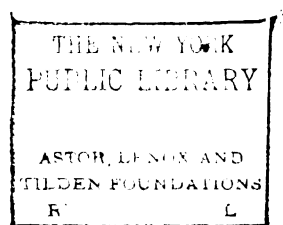
Rami subquadrati, tomentosi, ad articulos intrà stipulas annulo villosa circumdati. Folia petiolata, ovali-lanceolata, basi subcordata, 4 uncias longa, 1-1½ lata, suprà glabriuscula, nervo medio piloso, infrà cum petiolo pilis paucis rigidis vestita. Flores terminales, in capitulo sessiles, 6-8 in involucri brevi, pubescente, dentato, erecto, calycibus brevior. Calyx pubescens, corolla multo brevior. Corolla infundibularis, erecta, extus pubescens, semuncialis, coccinea. Stamina medio tubo inserta.

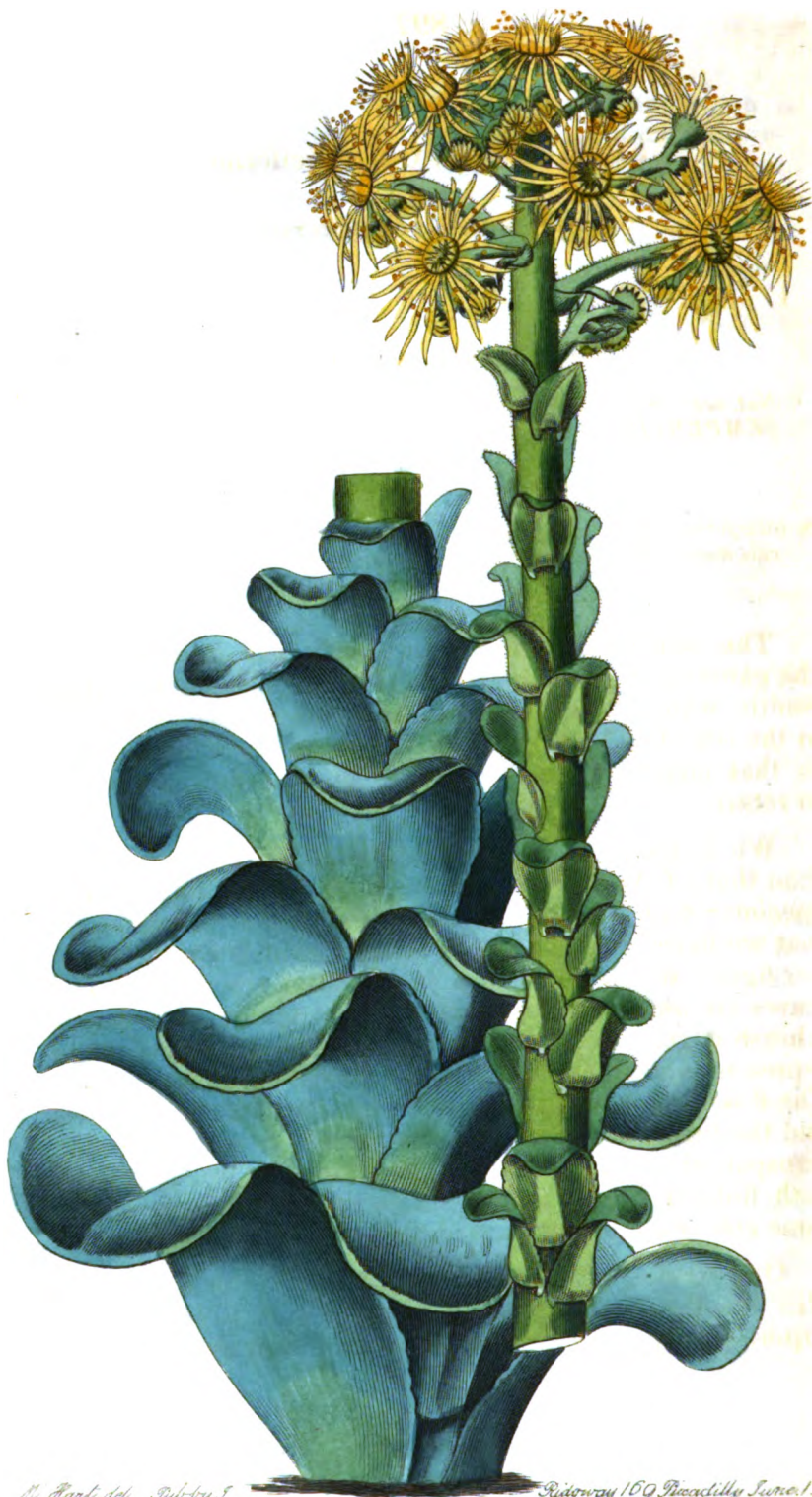
The genus *Burchellia* was constituted by Mr. Brown, in a former volume of this work, upon the *Lonicera bubalina* of Linnæus. At that time one species only had been observed. The present was communicated to us by Messrs. Whitley and Co. of the Fulham Nursery, in March last. It may be distinguished from the original species by its small flowers and differently shaped leaves, which are not hispid, but nearly destitute of pubescence, except upon their nerves. It is a native of the Cape of Good Hope, and is to be preserved in a good greenhouse.

A low bush in this country, with somewhat square downy branches, which at the joints inside the stipules are surrounded by a rim of dense hairs. The leaves are stalked, oval-lanceolate, somewhat cordate at base, about 4 inches long, and from an inch to an inch and quarter broad, nearly smooth above, with the middle nerve pilose, beneath covered like the petiole with a few stiff hairs. Flowers terminal, sessile in a head, from 6 to 8 in number,

seated in a pubescent, toothed, erect involucre, which is shorter than the calyxes. *Calyx* pubescent, much shorter than corolla. *Corolla* funnel-shaped, erect, pubescent outside, half an inch long, of a bright scarlet colour. *Stamens* inserted in the middle of the tube.

J. L.





*N. Hart. del. Rub. by J.*

*Ridgway 169 Piccadilly June 1 1825*



**SEMPERVIVUM caliciforme.***Chalice-formed Sempervivum.***DODECANDRIA DODECAGYNIA.***Nat. ord.* SEMPERVIVÆ.*SEMPERVIVUM L. V. supra vol. 2. fol. 99.*


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*S. caliciforme*; foliis lævigatis nudis glaucis densissimè imbricatis capitulo caliciformi incurvatim elegantissimè collectis. *Haworth suppl. 69.*

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This rare species of *Sempervivum* was introduced to the gardens of this country by the unfortunate Christian Smith, who collected it, with many other curious plants, in the island of Madeira, while touching there on his way to that unhappy climate whence he was destined never to return.

We do not find the species described in any other work than that of Mr. Haworth, which we have quoted. The specimen with which we were furnished was so imperfect, that we have little to remark beyond what is expressed in our figure, which conveys a just idea of the plant. The leaves are glaucous, fleshy, very blunt, with a thin curled whitish edge. Before flowering they are so placed as to represent a small chalice, whence the name has been taken. The flowering stem appears to be glabrous, but the pedicels and the leaves of the calyx are sparingly covered with fine transparent glandular hairs. The flowers are bright yellow, with filiform petals, and a single row of stamens of the same colour as the petals, and about half their length.

Our drawing was taken from a plant in the Nursery of Mr. W. Ross, of Stoke Newington. It is half-hardy, requiring only a dry air, and protection from frost.

J. L.



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## TETRANTHERA laurifolia.

### *Laurel-leaved Tetranthera.*

#### ENNEANDRIA MONOGYNIA.

Nat. ord. LAURINEÆ. Br. prodr.

*TETRANTHERA* Jacq.—Flores dioici. Involucrum umbellæ, 4-5 phyl-  
lum, deciduum. Perianthium limbo 4-6 partito v. nullo.—Masc. Stamina  
6-15. Anthera 4-loculares. Glandulæ ad basin filamentorum interiorum.  
*Rudimentum* pistilli.—Fem. Glandulæ staminaque sterilia. Stigma dila-  
tatum, sublobatum. Bacca nuda. Br. prodr. 403.

*T. laurifolia*; foliis obovatis oblongis petiolatis suprâ glabris, petiolo piloso,  
involucris tetraphyllis tomentosis.

*Tetranthera laurifolia*. Jacq. Schönb. 1. t. 113. Smith in Rees in loco.

*Tomex tetranthera*. Willd. sp. pl. 2.839.

*Litsea tetranthera*. Pers. syn. 2.4.

Obs. *Tomex sebifera* Willd. et *Litsea chinensis* Lamarckii a *T. laurifolia*  
differunt, ut aiunt, floribus asepalis. Herbario nostro tres adsunt ramuli, quo-  
rum unus ex horto Calcuttense sub nomine *Litsea chinensis* missus est, alter e  
Mauritio, tertius Guyand; horum prior 3-5 sepalus, alteri planè asepali;  
nullo alio signo distinguendi. Anne igitur hæ species eadem? Characteres  
autorum nulla signa ostendunt quibus separandæ sunt.

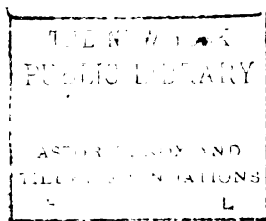
That the subject of this article is the *Tetranthera laurifolia* of Jacquin, there can, we think, be no reason to doubt. Whether it is not also the *Tomex sebifera* of Willdenow, and the *Litsea chinensis* of Lamarck, may also be worthy of consideration. In the specific characters which have been assigned to the last-mentioned species by authors, we confess we can detect no differences beyond that of their being asepalous, by which they can be divided from *T. laurifolia*; between themselves we perceive no distinction whatever. We are unable to tell what value may be attached to the absence or presence of sepals in these plants, but the importance of such a character appears at most to be doubtful. The divisions of the perianthium, or the petals as they have been incorrectly called, are deciduous, and easily overlooked in dried, and, perhaps, imperfect specimens. We have in our own possession three branches of what appear to be of the same species, of which one was

sent from the Botanic Garden, Calcutta, under the name of *Litsea chinensis*; another was collected in the Isle of France, where Lamarck states his *L. chinensis* to be cultivated for hedges; and the third was sent from Guyana to Professor Hooker by Mr. Parker. Of these the specimen from the Botanic Garden, Calcutta, has distinctly from 3 to 5 deciduous sepals, and cannot be distinguished from the plant now figured; the two others differ from it in no other material respect than in being, as far as we have observed, asepalous. Considering these facts, and that the three supposed species of authors have not been described as different by any botanist who had actually more than one of them before him, we cannot but entertain a suspicion of the three being repetitions of one species. We have not, however, ventured to combine them; our conjectures not being supported by the examination of authentic specimens.

A tall shrub, native of China, where the plant from which our drawing was made was obtained for the Horticultural Society, and brought home by Mr. John Potts in 1822. It flowers in August and September, and requires the heat of a bark-bed. At the Isle of France it is cultivated under the name of *Cérisier de la Chine*, or Chinese Cherry-tree, the berries when ripe resembling that fruit.

Our drawing was made in the Chiswick Garden last summer.

J. L.





*E. F. M. M.*

9. - by J. Ridgway N.Y. Privately June. 1825

22



## GASTONIA palmata.

*Palmate Gastonia.*

## DODECANDRIA DECAGYNIA.

Nat. ord. ARALIACEÆ.

*GASTONIA* Commers.—*Calyx* margine elevato integro. *Petala* 6, basi lata, rarius 5. *Stamina* 12, rarius 10, ad petalum quodlibet binata breviora. *Styli* 10-12, minimi, basi juncti; stigmata 10-12. *Capsula* 10-12-locularis. *Juss. gen.* 217.

*G. palmata*; foliis cordatis serratis palmato-7-lobatis supra glabris subtus ferrugineo-pubescentibus.

*Gastonia palmata*, R. Hort. Beng. 33.

*Caulis simplex, tuberculis aculeiformibus purpureo-viridibus undique adspersis. Folia in petiolo longo, basi vaginato, aculeato, tereti insidentia, cordata, palmata, 7-loba, lobis lanceolatis, serratis, subæqualibus, subtus pallida, pubescentia tenui, ferruginea, stellatâ tecta. Umbella composita, umbellulis 16-18 floris, involucri partiali nullo, pedunculis glabris, punctatis, pedicellis furfure raro, deciduo, ferrugineo vestitis. Calyx subinteger, plicatus. Petala cito decidua. Stamina 5-9, extra discum crispum, latum, inserta. Stylus 1, apice multipartitus.*

Whether this plant really belongs to the genus *Gastonia*, we unfortunately have not the means of judging. The specimens with which we were furnished were incomplete; but from such an examination as we were enabled to give them, we did not discover any thing materially at variance with Jussieu's character, as the above brief description in some measure shews.

We do not find the species recorded in any work besides the Hortus Bengalensis, in which we are informed that the plant is a native of Chittagong, and that it is an upright tree or shrub. Another species, called by Roxburgh *G. saururoides*, is said to be a native of the Moluccas.

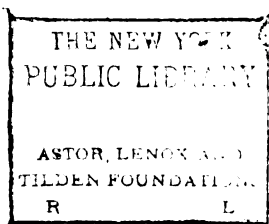
Jussieu states that the genus was named by Commerçon in honour of Gaston de Foix, Duke of Orleans, brother of Louis XIII., a patron of botany, and of Morison. He was the founder of the botanic garden at Blois, and the prince who commenced the formation of the collection of

drawings of objects of natural history preserved in the Museum at Paris, and continued down to this day.

Our drawing was made in March last at Mr. Brookes's Nursery, Ball's Pond, from a plant about 5 feet in height.

*Stem* simple, covered all over with purple prickle-like warts. *Leaves* seated on a long prickly round stalk, sheathing at its base, cordate, palmate, 7-lobed; the lobes lanceolate, serrate, nearly equal, covered beneath with a fine stellate ferruginous pubescence. *Umbel* compound; the partial umbels with from 16 to 18 flowers each; without an involucre; their peduncles smooth, dotted; pedicels covered with a thin deciduous ferruginous pubescence. *Calyx* nearly entire, plaited. *Petals* quickly deciduous. *Stamens* 5-9, inserted outside a broad discus. *Style* 1, with many divisions at end.

J. L.





*M. Bart. del. Del. by J. Rodgman 169 Broadway June 1. 1825.*

*J. Walter sc.*

## NAUCLEA Adina.

### *Myrtle-leaved Nauclea.*

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#### PENTANDRIA MONOGYNIA.

*Nat. ord. RUBIACEÆ.*

**NAUCLEA L.**—*Capitulum* calyx, corolla, stamina Cephalanthi, additâ quintâ floris parte. *Stylus* et stigma idem. *Capsula* 2-cocca coccis polyspermis apice infixis axi filiformi centrali (ut in umbelliferis), a basi discedentibus et intus suturâ dehiscentibus; semina plurima marginata minuta, ope funiculi setacei inserta marginibus suturæ. *Arbusculæ, capitula axillaria et terminalia, longè pedunculata pedunculo 1-2-squamuloso. Car. fructus ex G. t. 30.*—*Conger tum Funis uncatus Rumph. 5. t. 34 tum Ouroparia Aubl. t. 68.* (*Uncaria Schreb. Agylophora Neck.*) cui præterea sæpius *spina aduncæ oppositæ, foliis decussativè interpositæ. Juss. mem. mus. 13.402.*

*N. Adina*; foliis lanceolatis glabris, capitulis solitariis axillaribus, pedunculis foliorum longitudine, pericarpio tenui oligospermo.

*Adina* globiflora. *Paradisus Londinensis, t. 115.*

*Nauclea Adina. Smith in Rees in loco.*

*Cephalanthus chinensis Hort. An quoque Lamarchii?*

*Suffrutex dumosus, 2-pedalis. Folia opposita, lanceolata, acuminata, glaberrima, capitulorum longitudine, petiolo brevi puberulo, stipulâ intermedîâ acutè bilobâ. Flores pallidè lutei, in receptaculo globoso aggregati, suapeolentes. Receptaculum paleis filiformibus clavatis calycis longitudine tectum. Calyx superus, campanulatus, 5-partitus, lobis linearibus, obtusis, glabris. Corolla infundibularis, 5-loba, intus glabra, lobis ovatis valvatis. Stamina 5, filamentis brevibus, infrâ sinus limbi inserta. Antheræ ovatæ, acutæ, biloculares, anticè longitudinaliter dehiscentes. Stylus filiformis, rectus, corollâ duplò longior. Stigma capitatum. Ovarium liberum, inferum, obovatum, pilosum, 2-loculare, ovulis in utroque loculo 4 pendulis. Pericarpium tenue, 2-loculare, loculis bivalvibus, ab axi persistente calyce coronatâ discedentibus. Semina in utràque valvulâ duo, tenuia, marginata utrinque caudata.*

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A small shrub, a native of China, whence living plants were brought for the Horticultural Society, in 1822, by the late Mr. Potts. Our drawing was made in the Chiswick Garden in September last. It requires the protection of a conservatory, and is easily propagated by cuttings.

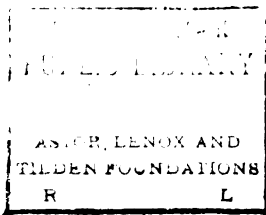
It is difficult to determine the genus to which this plant should be referred. Mr. Salisbury, who first noticed it in

this country, formed it into a distinct genus, which he called *Adina*. Sir James Smith reduces *Adina* to *Nauclea*. To ourselves it appeared, while unacquainted with the fruit, to be in nowise distinguishable from *Cephalanthus*, from which we still think that nature has not divided it. Upon inspection, however, of the fruit, of which there are specimens in the possession of the Horticultural Society, it proves to be in the structure of its pericarpium more nearly related to *Nauclea*, from which it only differs in dehiscence, and in the small number of its seeds. We therefore coincide with the opinion of Sir James Smith, remarking only that this and another species with which we are acquainted seem to confirm the opinion entertained by some botanists of authority, that *Cephalanthus*, *Nauclea*, and *Uncaria* can, with *Adina*, be maintained only as sections of the same natural genus.

The unpublished species to which allusion has just been made is also a native of China, from whence we have specimens in fruit. It resembles *N. Adina* entirely in habit, but differs from it in the outline of its leaves, and in the great length of the peduncles. It may, therefore, be called

*N. Adinoides*; foliis obovato-lanceolatis glabris, capitulis axillaribus foliis duplo longioribus, pericarpio tenui oligospermo.

J. L.





*S. pubescens* Ledeb. Col. by J. Ridgway 100. Presumably June 1. 1825.

J. Wats.



## PRIMULA Pallasii.

*Pallas's Oxlip.*

PENTANDRIA MONOGYNIA.

Nat. ord. PRIMULACEÆ.

PRIMULA. Suprà vol. 7. t. 539.

*P. Pallasii*; foliis obovato-oblongis eroso-dentatis glabris subundulatis, umbellâ pubescente, calycibus ovatis hiantibus, corollæ limbo plano. *Lehm. Monographia Primularum*, p. 38. t. 3. *Romer et Schultes*. 4.137.

*P. altaica*. *Pall. in Herb. Willd. ex Rom. et Schultes*. 4.785. non *Lehmanni*.

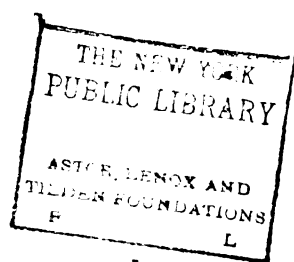
Folia cæspitosa, vere primo parva, rugosa, erecta, oblonga, acuminata, lamina lateribus in se replicatis, petiolo latissimo; postea explanata, multoties majora, obovato-oblonga glabra. Scapus erectus, teres, leviter pubescens. Umbella 6-flora, involucri brevis diphyllus; pedicelli erecti leviter pubescentes. Calyx oblongus, pentagonus, pubescens, ferè tubi longitudine: laciniis brevibus rectis, post anthesin hiantibus. Corolla hypocrateriformis, pedicello longior, pallidè sulphurea, tubo terete calyce vix longiore, limbo plano, laciniis discretis, obcordatis, tubi longitudine.

This was first published from Willdenow's Herbarium, by Lehmann, in his *Monographia Primularum*. From the Oxlip of our meadows, it is distinguished by the proportion and form of the calyx, and by the form of the leaves. The latter during the time the plant is in flower are very small, with their sides so much folded back as to make the petiole appear as wide as the lamina; after flowering they become large, obovate, and fully expanded.

Raised in 1822 at the Garden of the Horticultural Society, from seeds presented by Professor Schrader, of Göttingen. A hardy perennial plant flowering in the beginning of February, and requiring the same treatment as the Primrose and Polyanthus. It is sensibly distinguished from the Oxlip and Cowslip, by the peculiar form of its leaves, and by the pale sulphur colour of its flowers.

*Leaves* tufted, in the first of the spring small, rugose, erect, oblong, acuminate, their sides much folded back, and their petiole very broad; after being fully expanded becoming much larger, obovate-oblong, and smooth. *Scape* erect, round, slightly pubescent, about 6 inches long. *Umbel* 6-flowered, with a short two-leaved involucre. *Pedicels* erect, slightly pubescent. *Calyx* oblong, 5-cornered, pubescent, almost as long as tube; with short erect segments, gaping after flowering. *Corolla* hypocrateriform, longer than stalk, pale sulphur colour, with a round tube scarcely longer than calyx; *limb* flat, with distinct obcordate segments the length of tube.

J. L.





*W. de Koning, 1890*

## MAXILLARIA Harrisoniæ.

*Mrs. Harrison's Maxillaria.*

## GYNANDRIA MONANDRIA.

*Nat. ord. ORCHIDÆ: tribus Vandææ. Lindl. coll. bot. ined.*

*MAXILLARIA Fl. Per.*—*Perianthium* patens, resupinatum. *Labellum* cum processu unguiformi columnæ articulatum, trilobum. *Sepala* lateralialia exteriora basibus cum processu columnæ connata. *Pollinia* 4, basibus connata, glandulosa.—*Herbæ parasiticæ, bulbosæ, Americæ meridionalis. Folia coriacea plicata. Racemi radicales.*

*Maxillaria Harrisoniæ*; foliis solitariis lanceolatis plicatis, racemo bifloro, perianthio maximo cerino patente, labelli venosi disco glanduloso piloso, lobis recurvis crispis.

*Dendrobium Harrisoniæ. Hooker's Exotic Flora, tab. 120.*

From an inspection of the specimen from which Dr. Hooker's figure of his *Dendrobium Harrisoniæ* was taken, we have ascertained that it is the same as the plant now published, notwithstanding the difference in the colour of their flowers. The plant which Dr. Hooker examined appears to have been in a less vigorous state of health than that before us, and to have produced only one flower, instead of two, or probably a greater number.

A native of South America. The plant from which our drawing was taken was kindly communicated by William Cattley, Esq., from his Conservatory at Barnet. A robust stove parasite, flowering in September.

No group of plants has undergone greater changes, in consequence of accurate investigation, and the application of modern analytical principles of botany, than the genus *Dendrobium*. As it stands in Willdenow's *Species Plantarum*, published twenty years ago, it consists of 25 species. Of these, *D. sanguineum* has been detached, by Mr. Brown, under the name of *Broughtonia*; *D. graminifolium*, by the same distinguished Botanist, as *Octomeria*; and *D. rusci-folium*, as *Pleurothallis*. To the latter genus, *D. racemiflorum* has been referred by the writer of this article. *D. poly-*

*tachyon* is the type of Dr. Hooker's genus *Polystachya*; *D. utricularioides*, and probably *testiculatum*, are species of *Ionopsis*; *D. palmifolium* and *Barringtoniæ* belong to the genus now reformed. Of the few remaining after these deductions, the East Indian kinds are probably genuine species of *Dendrobium*, and most of the others require further examination.

The genus *Dendrobium*, as limited by Mr. Brown in the 2d edition of the *Hortus Kewensis*, should include no species except those with 4, parallel, distinct pollen-masses; and will consequently contain only the East Indian species, which form a numerous group, distinctly characterised by the character above mentioned, and naturally connected by habit. They are trailing or erect parasites, without bulbs, but with long, leafy, or naked round stems, producing the flowers from their axillæ, either singly, or in few-flowered fascicles. From these, the American species, agreeing with them in general structure of perianthium, are now divided. They are distinguished by having only two pollen-masses, each divided down the middle, and connected at the base by a common glandular process; and by being all bulbous. Besides the kind now published, *D. Barringtoniæ* (*Maxillaria Barringtoniæ* Nob.) and *D. palmifolium* (*M. palmifolia* Nob.), belong to the genus *Maxillaria*, which will be increased by the examination of the numerous *Dendrobium*-like plants of the continent of South America. It is distinguished from *Polystachya* by the structure of its perianthium, and by its radical inflorescence.

Nearly related to *Maxillaria*, in general characters, and in geographical position, is a genus of which the plant published at tab. 732 of this work, under the name of *Dendrobium squalens*, must be considered the type. This plant has only two pollen masses, furrowed on each side, and its flowers are in their natural position. It may be called *Xylobium*, and thus characterised:

#### XYLOBIUM.

*Perianthium* rectum, patens. *Labellum* cum processu unguiformi columnæ articulatam, trilobum, in columna incumbens. *Sepala* lateraliter exteriora basibus cum processu columnæ connata. *Pollinia* 2, hinc sulcata.

—Herbæ habitu *Maxillariæ*.

Sp. 1. *Xylobium squalens*.

*Dendrobium squalens*. *Suprà* t. 732.

J. L.

ASST. T. S. AND  
FLOREN FOUNDATIONS  
F L



*A. Hart del. Pub. by J. Ridgway 169 Piccadilly July. 1. 1825.*

*J. Walther sc.*



**ALLIUM fragrans**  $\beta$ . *Nepalense*.*Nepal Fragrant Allium.*

## HEXANDRIA MONOGYNIA.

*Nat. ord.* ASPHODELEÆ.*ALLIUM* L. *Suprà* vol. 9. fol. 758.

*A. fragrans*; scapo terete, foliis linearibus carinatis obtusis contortis, pedunculis nudis, staminibus planis. *Vent. Cels. t.* 26. *Pers. syn.* 1.357.  
 $\beta$ . *Nepalense*; umbellâ 6-florâ, antheris luteis.

Folia *pedalia, debilia, diffusa, linearia, obtusa, glaucescentia, apice contorta*. Scapus *glaber, erectus, teres, foliis paulo longior, foliorum colore, basi rubescens*. Umbella *6-flora, spathâ brevi, scariosâ, diphyllâ*. Pedicelli *recti, rigidi, graciles, elongati*. Perianthium *6-fidum, turbinatum, laciniis albis, patentibus, obtusis, æqualibus, concavis, tubo viridi*. Stamina 6, *perianthii ferè longitudine, erecta, tubi apice inserta*. Filamenta *lineari-lanceolata, alba, basi viridia*. Antheræ *polline luteo*. Ovarium *cylindraceum, 6-costatum, glaberrimum*. Stylus *staminum longitudine*. Stigma *simplex, parvum, depressum*. *Obs.* Flores *fragrantissimi*.

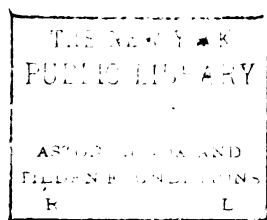
This plant was raised in 1823, in the Chiswick Garden, from seeds presented to the Horticultural Society by the Honourable Court of Directors of the East India Company. Our drawing was made from a plant which flowered in a green-house, in October last.

We are unable to distinguish it from the *Allium fragrans* of the French, which is a native of Africa, by any other differences than those which we have indicated; that is to say, by the yellow, not purple colour of the pollen, and by the small number of flowers in each head. We have compared it with numerous living plants received by the Horticultural Society from Paris, as the *A. fragrans* of Ventenat, and we find them agree in almost every other particular, especially in the glaucous colour of the leaves and stems, in the twist at the extremity of the former, and in the colour and size of their flowers.

The *Allium Sulvia* found in Nepal by Dr. Hamilton seems to be nearly related to this, but we have seen no specimen of it; and Mr. Don describes it as having a many-flowered umbel, with small flowers, which those of *A. fragrans* can scarcely be termed.

*Leaves* a foot long, weak, diffuse, glaucous, linear, channelled, obtuse, and twisted at the end. *Scape* smooth, erect, round, a little longer than the leaves, glaucous, with a little red at the base. *Umbel* 6-flowered, with a short, scarious, 2-leaved spatha. *Pedicels* long, slender, rigid. *Flowers* very fragrant, 6-cleft, turbinate, with white, spreading, blunt, equal, concave segments, and a green tube. *Stamens* 6, nearly the length of perianth, erect, inserted into the mouth of the tube. *Filaments* linear-lanceolate, white, green at base. *Pollen* yellow. *Ovary* cylindrical, 6-ribbed, very smooth. *Style* the length of stamens. *Stigma* small, simple, depressed.

J. L.





W. F. A. del.

Printed by S. Ridgway 109 Broadway N.Y. 1, 1825

P. W. M. sculp.

## COSTUS Pisonis.

*Red American Costus.*

MONANDRIA MONOGYNIA.

Nat. ord. SCITAMINEÆ.

COSTUS. *Suprà* vol. 8. fol. 633.

*C. Pisonis*; foliis carnosis elliptico-lanceolatis acuminatis basi angustatis, spicâ ovali arcuè imbricatâ, squamis inferioribus apice foliaceis, corollis roseis.

Jacuacanga v. Paco Caatinga. *Piso Brasil.* 98.

Paco Caatinga. *Marcgr. Braz.* 48. *quoad figuram, viz autem descriptionem.*

Caulis herbaceus, 4-pedalis, strictissimus, glaberrimus. Folia grandia, coriacea, elliptico-lanceolata, acuminata, versus basin angustata, superiora minora. Capitulus terminalis, ovi columbini magnitudine, squamis sanguineis imbricatus, pauciflorus. Squamæ lucidæ, ovatae, obtusæ, margine membranaceæ, inferioribus apice foliaceis. Flores rosei, magni, è squamis erumpentes, citò decidui.

Dr. William Piso, a Dutch physician, who published an account of the Natural History of Brazil in 1648, was the first author who noticed this fine species of *Costus*, which he has described with a figure under the name of *Jacuacanga*, or *Paco Caatinga*. His figure has not been omitted in the compilations of modern Botanists, who have universally agreed in referring it to the *Alpinia spicata* of the elder Jacquin. But the last-mentioned Botanist describes his plant as having a yellow flower, and points out the discrepancy between it and the Brazilian plant of Piso. Of Jacquin's plant we have fine specimens from Guiana, communicated by Professor Hooker, and we do not doubt its being distinct from *C. Pisonis*. The *Paco Caatinga* of Marcgraaf, which is illustrated by the very same wooden block as was employed by Piso for his *Jacuacanga*, is probably a species distinct from both those now mentioned, and remarkable for having its leaves white and downy on the under side, and very large heads of flowers. The kind to which allusion is made by Marcgraaf as resem-

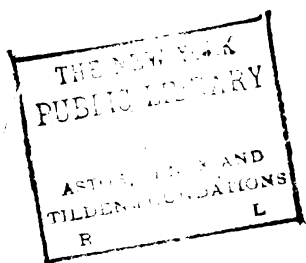
bling that with downy leaves, “ *excepto quod folia inferius non sunt hirsuta, sed lævia ut supernè, et flosculi sunt rubri,*” is probably the plant now before us. The figure of Piso is expressive, although rude.

This and other species of the same tribe, all of which seem to be known in Brazil under the collective name of Paco Caatinga, are in high repute among the natives of the countries where they grow, as very powerful antisyphilitic medicines.

Our drawing of this species was made in the Garden of the Horticultural Society during last summer. It had been received in 1823, from Robert Hesketh, Esq., his Majesty’s Consul-general at Maranhão.

An *herbaceous* tender stove plant, rising to the height of four feet, quite upright, and very smooth in every part. *Leaves* large, coriaceous, elliptic-lanceolate, acuminate, narrow towards the base; the upper smaller. Head of flowers terminal, the size of a pigeon’s egg, few-flowered, imbricated with blood-red scales. The latter are shining, ovate, obtuse, with a membranous edge; the lower being leafy at end. *Flowers* large, rose-coloured, bursting out from among the scales, and quickly perishing.

J. L.





*Protea repens* L.

Det. by J. H. Rogers, 1693 Broadly July 1/1825.

J. H. Rogers.



## ISOPOGON longifolius.

*Long-leaved Isopogon.*

TETRANDRIA MONOGYNIA.

Nat. ord. PROTEACEÆ.

ISOPOGON R. Br.—*Perianthium* quadrifidum, tubo gracili diutius persistente. *Squamæ* nullæ, hypogynæ. *Stylus* totus deciduus. *Stigma* fusiforme, v. cylindraceum. *Nux* sessilis, ventricosa, undique comosa.—*Frutices rigidi*. *Folia glabra, plana v. filiformia, divisa v. integerrima*. *Capitula terminalia, rarè axillaria*. *Flores modo densissimè imbricati, strobilo globoso; modo fastigiati, receptaculo communi planiusculo subinvolutato, paleis deciduis, congestis*. Br. prodr. 365.

1. *Strobilus globosus, squamis densissimè imbricatis tardiùs deciduis*.  
Br. l. c.

I. *longifolius*; foliis lineari-lingulatis: superioribus integerrimis: inferioribus passim trifidis, perianthiis sericeis, stigmate glabro. R. Brown Linn. trans. 10. p. 73. prodr. 366. Röm. et Schultes sp. pl. 3.341.

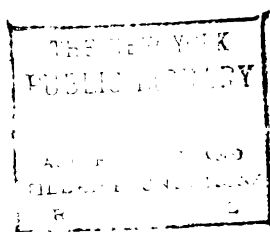
Rami teretes, glabri. Folia glaberrima, lineari-lingulata, in petiolo angustissimè attenuata, apice rotundata, torta, mucronata, nunc obsolete triloba. Flores in capitulo sessili, globoso, terminali, foliis quasi involucreto. Receptaculum pilis longis albis villosum. Squamæ cuneatæ, apiculatæ, extùs laevi albæ sericeæ obductæ, intùs glaberrimæ. Perianthium pube luteo sericeum, tubo tenui glabriore, limbo 4-partito sæpiùs sub-bilabiato, laciniis reflexis in apice concavo antheras lineares gerentibus. Ovarium villis densissimis, longissimis, argenteis involutum, qui etiam ad styli basin accrescunt. Stigma fusiforme, glaberrimum, staminum longitudine.

Our drawing of this species of *Isopogon* was made at Mr. Colvill's Nursery. It is a native of the Southern parts of New Holland.

A hardy green-house plant, with smooth, round branches. *Leaves* quite smooth, linear-lingulate, very much narrowed towards the base, at the end rounded, twisted, mucronate, occasionally with three obsolete lobes. *Flowers* yellow, in a sessile, globose, terminal head, and, as it were, surrounded by an involucre of leaves. *Receptacle* with long

white hairs. *Scales* wedge-shaped, apiculate, on the outside covered with long white silky wool, in the inside quite smooth. *Perianthium* silky, with yellow pubescence, tube thin, and nearly smooth, limb 4-parted, frequently somewhat 2-lipped, with reflexed segments bearing the linear anthers in their concave ends. *Ovary* wrapped in very dense, very long, silvery-white hairs, which also grow upon the base of the style. *Stigma* fusiform, quite smooth, the length of stamens.

J. L.





# SENECIO venustus.

## *Handsome Senecio.*

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### SYNGENESIA POLYGAMIA SUPERFLUA.

Nat. ord. COMPOSITE.

SENECIO. Vide *suprà* vol. 1. fol. 41.

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*S. venustus*; corollis radiantibus, caule, calyce, foliisque glabris, foliis pinnatifidis, laciniis linearibus acutis dentatis. *Ait. Kew. ed.* 1. 3.192.  
*Willd. sp. pl.* 3.1990. *Pers. syn.* 2.434. *Lindl. in Hort. trans.* 6.99.

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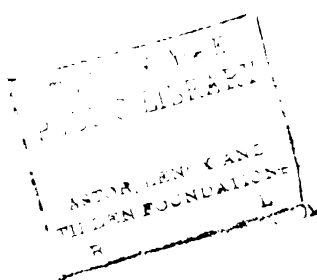
A very handsome herbaceous plant, in favourable situations living for three or four years, but, if treated as a hardy plant, perishing after the second year. It is a native of the Cape of Good Hope, and usually increased by seed.

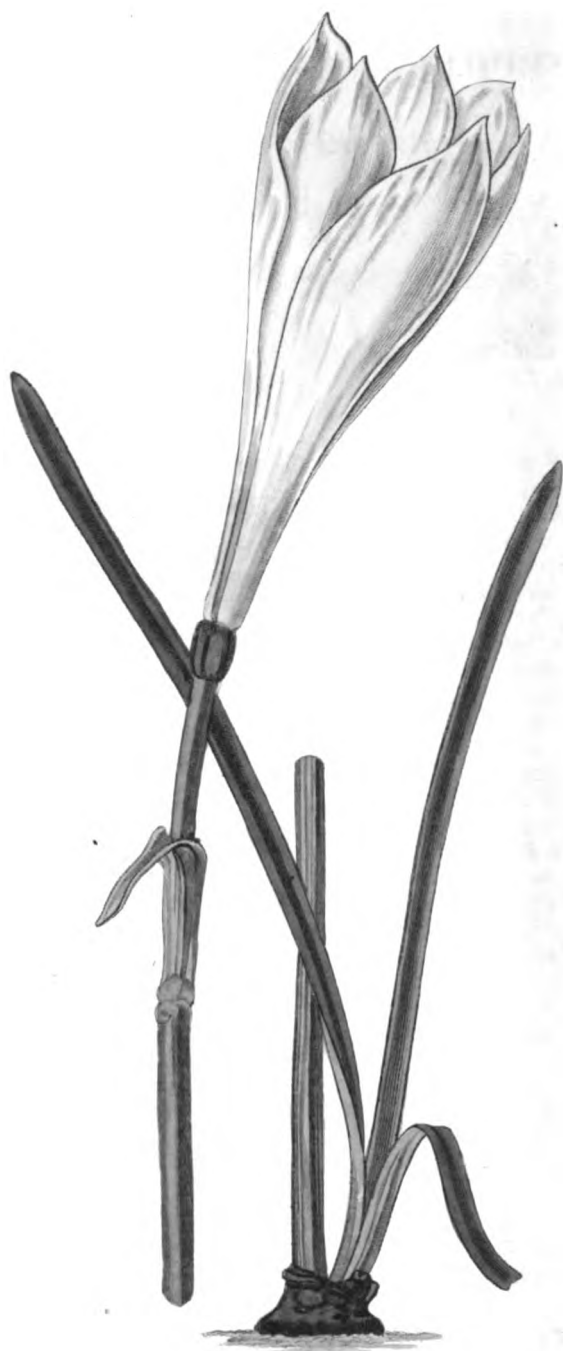
Nearly related to the common *Senecio elegans*, or *Purple Ragwort* of the gardens, from which it is distinguished by the smoothness of all its parts, and by its leaves being more finely divided and more acute. The under-side of the leaves, upon the mid-rib, is frequently beset with soft bristles.

No figure of this plant has been previously published. Our drawing was made in the Garden of the Horticultural Society, from a plant raised from seed presented to the Society from the Royal Botanic Garden at Berlin, by Mr. Otto.

J. L.









## ZEPHYRANTHES grandiflora.

*Large-flowered Zephyranthes.*

## HEXANDRIA MONOGYNIA.

Nat. ord. AMARYLLIDÆE.

ZEPHYRANTHES. V. *suprà* fol. 821.

*Z. grandiflora*; foliis linearibus erectis obtusis scapo multo brevioribus, spathâ monophyllâ, pedunculo brevior, perianthio infundibulari pedunculo duplo longiore.

*Amaryllis minuta*. Humb. et Bonpl. nov. gen. et sp. 1.278. Kunth. *synops.* 1.285.

Bulbus ovi columbini magnitudine, nigro-brunneus. Folia 3, 4-6-uncialia, erecta, linearia, utrinque glaberrima, apice rotundata, subacuta, late viridia, versus basin paulo rubro suffusa. Scapus cum flore pedalis, teres, fistulosus, glaber, late viridis, basi coloratus, uniflorus. Flos in pedunculo suberecto, sesquiunciali insidens. Spatha pedunculo brevior, monophylla,  $\frac{1}{2}$ -fissa, parte libera, integerrima, lateribus involutis, patente. Perianthium infundibulare, 3 uncias longum, late rubicundum, tubo inferiore pallidè virente; lacinie ovaes, subæquales, usque ad medium divisæ, exterioribus interiores imbricantibus, marginibus fere ad basin usque liberis. Stamina inclusa, perianthio multo breviora, fauce tubi inserta, non declinata. Antheræ lineares, versatiles. Ovarium breve, trigonum, trilobulare, multiovulatum; ovula compressa, disticha. Stylus filiformis, declinatus, sursum clavatus, antheris longior, perianthio brevior. Stigma trilobum, crassum, lobis recurvis.

Capsula brevissimè pedicellata, vestigiis spathæ ruptæ vestita, trilobularis, semi-trivalvis, valvula medio septifera, late, rotundata, apiculata, medio extus, è regione dissepimenti, canaliculata. Semina numerosa, distichè imbricata, ope funiculi brevissimi, tenuissimi placentæ affixa, compressa, semiovata; testa purpureo-nigra, lucida, membranacea, ad apicem et dorsum laxa; chalaza membrana apicis interior, pallida, subrugosa. Embryo obliquus, in axi albuminis carnosus, copiosi cylindricus, 2 tertias axis occupans, paulo eccentricus; radícula apice imo, hilo proximo, albumine incluso; plumula minima, è latere embryonis versus basin erumpens, et apice suo semper denudato!! nec embryonis substantiâ supertexto.

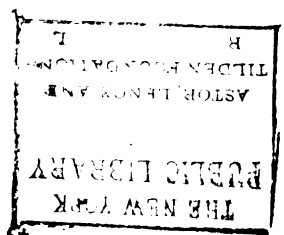
A beautiful new species of *Zephyranthes*, native of Mexico, where it does not seem to be uncommon, especially in the cool high country about Real del Monte and Cerro Ventoso. Introduced this spring for the first time. Our

drawing was made in May, from a plant in the possession of Sir Abraham Hume. We have seen others in the collection of the Horticultural Society, to whom they had been presented by Don Mariano La Gasca.

When our drawing of this species was made, we had not seen the flower in its most perfect state. Since the figure was in the hands of the engraver, we have had an opportunity of examining the plant under the influence of bright sunshine, and we find that the flowers then expand quite as much as in *Zephyranthes rosea*.

*Bulb* the size of a pigeon's egg, blackish brown. *Leaves* 3, 4, or 6 inches long, erect, linear, quite smooth on each side, rounded, but somewhat acute at the end, bright green, a little tinged with red towards the base. *Scape*, together with the flower, a foot high, round, hollow, smooth, bright green, coloured at base, 1-flowered. *Flower* seated on a nearly erect peduncle an inch and half long. *Spatha* shorter than the peduncle, 1-leaved, half-split, the part above the opening entire, spreading with involute edges. *Perianth* funnel-shaped; 3 inches long, bright pink, the limb in the sunshine opening nearly flat; lower part of the tube pale green; segments oval, nearly equal, divided almost as far as the middle of the flower; the outer lapping over the inner, their edges being distinct almost as far as the base. *Stamens* included, much shorter than perianth, inserted into the throat of the tube, not declinate, but spreading equally. *Anthers* linear, versatile. *Ovary* short, three-cornered, three-celled, with many ovules packed in two rows one above the other. *Style* filiform, declinate, clavate upwards, longer than the anthers, shorter than the perianth. *Stigma* three-lobed, thick, with recurved lobes.

J. L.





*B. Mend. del.* *Publ. by J. Ridgway 159 Piccadilly July 1825.* *J. Walter.*

## HELICTERES verbascifolia.

*Mullein-leaved Button-Wood.*

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### MONADELPHIA DECANDRIA.

*Nat. ord.* BOMBACEÆ. *Kunth. diss. malv.*

**HELICTERES** L.—*Calyx* tubulosus, sub-5-fidus. *Petala* 5, ligulato-unguiculata, superne subdentata. *Stamina* 5-10-15, longè monadelpha, urceolo apici multifido pilis nonnullis sterilibus. *Ovarium* longè stipitatum. *Styli* 5, basi concreti. *Carpella* 5, 1-locularia, polysperma, intus dehiscentia, sæpè in spiram regulariter contorta, interdum recta. *Semina* exalbuminosa, cotyledonibus spiraliter contolutis. *Dec. prodr.* 1.475.

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*H. verbascifolia*; foliis cordatis acuminatis serratis tomentosis virentibus, pedunculis axillaribus paucifloris, carpophoro longissimo. *Dec. l. c.* 476.  
*H. verbascifolia.* *Lodd. Bot. Cab.* 504. *Link. enum. ber.* 2.200.

*Folia* cordata, acuminata, subsimpliciter crenato-serrata, utrinque pilis, nunc simplicibus, nunc stellatis, sericea; *petioli* hispidi; *stipulæ* subulatæ, *petiolis* breviores. *Flores* axillares, corymbosi, pedunculati, *foliis* breviores. *Calyx* densè pubescens. *Petala* reflexa, *calyce* duplo breviora. *Tubus* stamineus longissimus, filiformis, glaber.

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A species of *Helicteres* introduced a few years since from the Brazils. It is a handsome shrub, remarkable for its brownish-red flowers, and the rosy, long, filiform tube of the stamens. From *H. jamaicensis* it is distinguished by the outline of its leaves, which are never angular or rhomboid, as they often are in that species, by the greater breadth of its petals, and especially by the tube of its stamens, which is very long and quite smooth, never downy as in *H. jamaicensis*.

Our drawing was taken at Mr. Colvill's Nursery, where the plant is kept in a cool stove.

*Leaves* cordate, acuminate, somewhat simply crenate-serrate, on each side covered with hairs, which are generally simple, but occasionally stellate; *petioles* hispid; *stipules* subulate, shorter than the petioles. *Flowers* axillary, corymbose, stalked, shorter than the leaves. *Calyx* densely pubescent. *Petals* reflexed, twice as short as calyx. *Tube of the stamens* very long, filiform, smooth.

J. L.

111









## ERIA stellata.

*Starry Eria.*

## GYNANDRIA MONANDRIA.

Nat. ord. ORCHIDEÆ. Div. Epidendree.

*ERIA* Lindley.—*Perianthium* lanatum, connivens. *Labellum* trilobum, articulatum cum processu unguiformi columnæ cujus lateribus sepala antica adnascuntur. Pollinia octo. *Collectanea Botanica* 42. *B. inedita.*

*E. stellata*; foliis lanceolatis carnosis 5-nervibus, sepalis ovato-lanceolatis acuminatis, labelli lobo medio acuminato, scapo angulato, ovario sepalisque exterioribus pube ferrugineâ lanatis. *Lindl. l. c.*

*Dendrobium javanicum.* Swartz *Act. Holm.* 1800 p. 247? *Willd. sp.* 4.137?

Herba parasitica, repens, robusta. Folia 1½-2 pedalia, erecta, carnosâ, glaberrima, lanceolata, tri-quinquennervia, basi squamis ovato-lanceolatis, vaginantibus, nervosis circumdata. Scapus 2-pedalis, teres, angulatus, undique pube lanatâ, rarâ, ferrugineâ obductus. Flores spicati, apice stellatim patentes, luteo-ferruginei, extûs eodem lanâ ac scapus obducti; basi bracteâ ovatâ, concavâ, scariosâ, siccâ, deciduâ, ovario longiore, extûs villosâ suffulti. *Perianthium* connivens, sepalis apice patentibus, lineari-lanceolatis, acuminatis, æqualibus, 5-nervibus, exterioribus basi connatis, extûs ferrugineo lanatis, interioribus glaberrimis: anticis basibus productis cum basi elongatâ columnæ connatis. *Labellum* erectum, cum columna parallelum, ejusque basi articulatum, ovato-lanceolatum, basi cucullatum, 3-lobum: disco carnosâ, tricostrato: lobis lateralibus abbreviatis, rotundatis, pallidis, venosis: intermedio elongato, acuminato, sepalis brevior. Columna brevis, semiteres. *Gynizus* anticus, concaviusculus, apice ovatus. *Anthera* carnosâ, cristatâ, apice dilatata truncata, omnino bilocularis, loculis discretis, bivalvibus. Pollinia cuique loculo 4, in paribus duobus, collateralia, basibus ad faciem mediam loculi adversis, et materie viscidâ connexis.

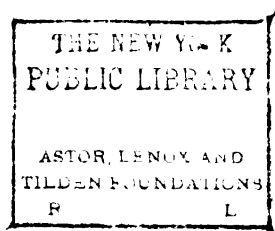
This genus has been founded, in the work above cited, upon a remarkable plant from Nipal, the *Dendrobium pubescens* of Professor Hooker, and the subject of this article. It differs from all the other genera, having the flower of *Dendrobium*, in the number of its pollen masses, with the exception of *Octomeria*, which we have had no opportunity of examining; but which, as an American

genus, and with a peculiar habit, we cannot doubt is sufficiently distinct.

The native country of this species is said to be Java; but we are not acquainted with the time or circumstances of its introduction to this country. For our drawing we have to thank Mr. Cattley, by whom fine specimens were communicated in February last.

A stout, creeping, parasitical plant. *Leaves*  $1\frac{1}{2}$  or 2 feet long, erect, fleshy, smooth, lanceolate, 3-5 nerved, surrounded at base with ovate-lanceolate, sheathing, nerved scales. *Scape* 2 feet high, round, angular, covered all over with thin rusty wool. *Flowers* spiked, at the end spreading in a stellate manner, of a yellow ferruginous colour, and covered on the outside with the same sort of wool as the scape; at the base supported by an ovate, concave, scarious, dry, deciduous bract, longer than the ovary. *Perianthium* connivent, spreading at end; sepals linear-lanceolate, acuminate, equal, 5-nerved; the *outer* connate at base, and covered with ferruginous wool outside, the *inner* quite smooth; those in front united by their dilated bases with the elongated foot of the column. *Labellum* erect, parallel with the column, and jointed with its base, ovate-lanceolate, cucullate at base, 3-lobed; *disk* fleshy, 3-ribbed; *lateral lobes* short, rounded, pale, veiny; *intermediate* long, acuminate, shorter than sepals. *Column* short, half-round. *Gynizus* in front, a little concave, ovate at end. *Anther* fleshy, crested, with a dilated, truncate end, completely 2-celled, with distinct, 2-valved cells. *Pollen masses* 4 in each cell, placed side by side, in two pairs, their bases pointing towards the front of the cell, and united by a viscid substance.

J. L.





*M. Hart, del.*

*Pub. by J. Ridgway 169 Piccadilly Aug. 1. 1825.*

*J. Wain.*

## CYDONIA Chinensis.

*Chinese Quince.*

## ICOSANDRIA PENTAGYNIA.

*Nat. ord. ROSACEÆ. Div. Pomaceæ Juss. Lindl.*

**CYDONIA L.**—*Calyx* 5-partitus: laciniis foliaceis. *Pomum* clausum polyspermum. *Semina* testâ mucilagineâ.—*Arbor mediocris* (Europæ et Japoniæ). *Folia integerrima, subtus lanata.* Flores solitarii, subsessiles. *Bracteæ sæpius solitariae, foliaceæ.* *Calyx lanatus.* *Petala magna, conspicua.* *Styli infrâ medium lana densa coherentes.* Lindley in Linn. Trans. 13.97.

**C. Chinensis;** foliis ovalibus argutè serratis utrinque acutis complicatis subtus tomentosis.

**C. Chinensis.** *Thouin. Ann. mus. 19.145. Link. enum. ber. 239.*

*Ramuli pilosi, tandem glabri. Folia petiolata, stipulata, coriacea, ovalia, utrinque acuta, argutè serrata, semi-complicata, suprâ viridia, lucida, sæpius rubro tincta, subtus tomentosa, petiolo tomentoso suprâ canaliculato, serie duplici glandularum; stipulæ pallidæ, glanduloso-dentatæ, petioli longitudine, 3-partitæ, lobo medio erecto ovato, lateralibus patentibus basi extus auriculatis. Flores terminales, solitarii. Ovarium fusiforme, glabrum, sæpè suprâ medium bracteatum. Calyx quinquepartitus, reflexus, intus tomentosus; laciniis subulatis, apice glanduloso-serratis. Petala patentia, breviter unguiculata, oblonga, rosea. Styli 5, basi connati. Stigmata capitata.*

This curious species of Quince appears, from a paper of the late M. Thouin's, published in the nineteenth volume of the *Annales du Muséum*, to have been in existence in England so long ago as the end of the last century. It does not, however, appear to have obtained the notice of any scientific work in this country, or to have been much known even upon the continent. We first saw it, some years since, in the Nursery of Messrs. Whitley and Co., at Fulham; and it was in that establishment that the figure for our plate was taken, in March last.

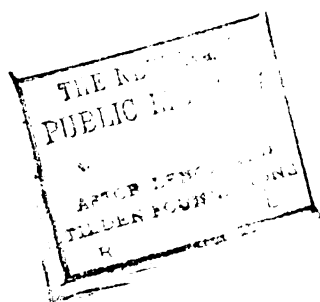
A handsome, hardy, small tree, or large shrub, pushing forth its leaves in the earliest spring, and frequently damaged by subsequent frosts. In warm situations it would probably be nearly evergreen; exposed to the full

influence of the winter, it becomes entirely deciduous. Its foliage has a striking resemblance to the beautiful *Pyrus japonica* of Thunberg, and affords a strong argument in favour of cancelling the genus *Chœnomeles*, which was formerly proposed in the Transactions of the Linnæan Society, chiefly upon Thunberg's assertion, that its fruit, when ripe, splits into 5 valves; an erroneous statement, of which it is difficult to account for the origin. We have examined perfect and ripe fruit, produced in the neighbourhood of London, with fully formed seeds, and we have found that it differs from *Cydonia* only in the seeds not having a mucilaginous testa.

The fruit of this species is said to be large, but not applicable as food under any management. It is oblong, of a pale citron colour, with dry, woody flesh, and very austere juice. It has not, we believe, been ripened in this country.

*Branches* hairy, finally becoming smooth. *Leaves* stalked, stipulate, coriaceous, oval, acute at each end, finely serrated, half-folded together, above green, shining, generally tinged with red, beneath downy, with a downy stalk, which is channelled, and glandular in two rows above; *stipules* pale, with glandular teeth, the length of the petiole, 3-parted, with the middle lobe ovate erect, lateral spreading with auricles at the base on the outside. *Flowers* terminal, solitary. *Ovary* fusiform, smooth, often bearing a bractea above its middle. *Calyx* 5-parted, reflexed, downy inside. *Segments* subulate, with glandular serrated ends. *Petals* spreading, on short stalks, oblong, rose-coloured. *Styles* 5, connate at base. *Stigmas* capitate.

J. L.





1825. 1825.

by C. B. Rogers 1825. 1825. 1825.

1825. 1825.



# ORNITHOGALUM corymbosum.

## Peruvian Ornithogalum.

### HEXANDRIA MONOGYNIA.

Nat. ord. ASPHODELEÆ.

ORNITHOGALUM. Suprà, vol. 2. tab. 158.

*O. corymbosum*; scapo terete, floribus corymbosis, corollâ magnâ, germine atro. *Flora Peruviana* 3.68. t. 300. *Lindley in Hort. Trans.* 6.86.

Bulbus semi-subterraneus, suprà terram vestigiis foliorum cicatricatus. Folia  $1\frac{1}{2}$  pedalia, ligulata, canaliculata, carnosâ, debilia, humifusa, glaberrima, viridia. Scapus 2-pedalis, teres, pennæ cygnæ crassitudine. Racemus corymbosus, decussatus, 6-florus. Bracteæ acuminatæ, cordatæ, membranaceæ, pedicello duplo breviores subdentatæ, eique appressæ, apicem versùs virides firmiores. Flores albi, odore lato *Oxyacanthæ*. Sepala primùm cyathiformia, dein patentissima, imbricata, latè ovata, subundulata, venosa, equalia, carnosâ, apice quandoque paululum divisa. Stamina 6, petalis duplo breviora, erecta, sepalis inserta; filamenta subulata; antheræ ovatæ, demùm verticales. Ovarium obovatum, nigro-viride. Stylus filiformis, simplex, basi viridis.

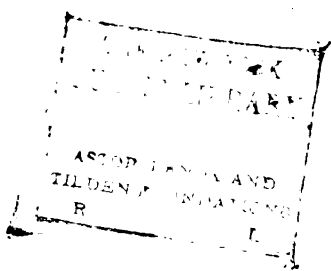
We extract the following remarks upon this plant from the Transactions of the Horticultural Society, in whose garden at Chiswick our drawing was made.

“ A bulb from Chili proved, upon flowering, to be the species described and figured under this name, (*O. corymbosum*,) in the *Flora Peruviana*. It is very like *O. Arabicum*, of which it is perhaps a mere variety; remarkable, however, for being a native of a country far distant from any in which *O. Arabicum* has yet been found. That it is wild in Chili, cannot be doubted; both from the bulbs in question having been sent with other wild plants indiscriminately collected, and because, although it is cultivated in the gardens of Peru, the authors of the *Flora Peruviana* expressly state their plant to be commonly wild in the provinces of Chancay, Cercado, and Huanuco.

The Peruvian women entwine the flowers, which are very fragrant, in their hair."

*Bulb* half subterraneous, above the ground marked with the scars of fallen leaves. *Leaves*  $1\frac{1}{2}$  foot long, strap-shaped, channelled, fleshy, weak; spreading on the ground, very smooth, green. *Scape* 2 feet high, round, as thick as a swan's quill. *Raceme* corymbose, decussate, 6-flowered. *Bractes* acuminate, cordate, membranous, twice as short as pedicels, somewhat toothed, and pressed close to the pedicel, towards the end green, and firmer than at the sides. *Flowers* white, with the perfume of hawthorn. *Sepals* at first cup-shaped, then spreading, imbricated, broad-ovate, somewhat wavy, veiny, equal, fleshy, a little divided sometimes towards the end. *Stamens* 6, twice as short as petals, erect, inserted into the sepals; *filaments* subulate; *anthers* ovate, at length vertical. *Ovary* obovate, dark green. *Style* filiform, simple, green at base.

J. L.





# BUCIDA buceras.

## Jamaica Olive-bark Tree.

### DECANDRIA MONOGYNIA.

Nat. ord. COMBRETACEÆ. Brown.

**BUCIDA** L.—*Calyx* campanulatus, 5 dentatus. *Stamina* 10, calyce longiora. *Bacca* sicca, coronata, 1-sperma.—*Folia in ramulorum dichotomia et apice conferta; flores spicati, axillares, et terminales, cornu spicam terminante spongioso, forsan inani, Rhizophoræ clavam mentiente.* Juss. gen. 75.

- 
- B. *Buceras*; spicis elongatis, foliis cuneiformibus glabris. *Vahl. ecl.* 1.50. *Mangle* iulifera, foliis subrotundis versùs summitem latissimis confertim nascentibus, cortice ad coria densanda utili. *Sloane jam.* 156. *hist.* 2. p. 67. t. 189. f. 3. *Raj. dendr.* 116.  
*Buceras* ramulis flexuosis tenuioribus, foliis obovatis confertis, spicis plurimis terminalibus. *Browne jam.* 221. t. 23. f. 1.  
*Bucida.* *Amoen. acad.* 5. p. 397.  
 B. *Buceras.* *Linn. sp. pl.* 556. *Lam. ill. t.* 356. *Swartz. obs.* 180. *Willd. sp. pl.* 2.630. *Pers. syn.* 1.485. *Ait. Kew. ed.* 2. 3.61.
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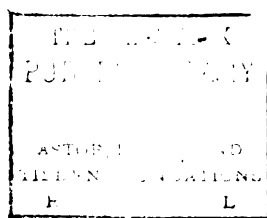
A tree 30 feet high, about 1 in diameter. *Branches* divaricate, or flexuose, roundish, smooth, and even. *Leaves* only at the divarications and summits of the branches, crowded together, petioled, obovate or ridge-shaped, obtuse, very entire, veined, smooth, near 2 inches long. *Spikes*, or rather spike-like racemes, numerous, simple, peduncled, axillary, near the ends of the branches, about the length of the leaves. *Flowers* small, yellowish, alternate, sessile, hoary without, tomentose within. The style, or upper part of the germ, especially at the extremity of the raceme, is sometimes extended to the length of an inch or more, and curved somewhat in the form of a bull's horn, (whence the specific name).

A native of the West Indies and South America. In Jamaica it is called Black Olive; in Antigua, French Oak; and in the French Islands, Grignon. Its bark is

used for tanning leather ; and its wood is excellent for chests of drawers and other kinds of cabinet-work, as it is seldom attacked by worms. *Smith.*

For our drawing we are obliged to Mr. Colvill, in whose Nursery this plant flowered in a stove. The plant is of easy cultivation.

J. L.







# POGONIA pendula.

## *Pendulous Pogonia.*

### GYNANDRIA MONANDRIA.

Nat. ord. ORCHIDÆÆ. Div. Neottieæ.

POGONIA. Suprà, vol. 2. fol. 148.

*P. pendula*; foliis ovatis squamiformibus amplexicaulibus, floribus subsolitariis cernuis, labelli lobo medio oblongo crispo, caule angulato.

Helleborine mariana, flore pallido purpureo trianthophoros. *Pluk. mant.* 100. t. 348. f. 6.

*Arethusa parviflora.* *Mich. am.* 2. p. 160.

*Arethusa trianthophoros.* *Swartz act. holm.* 1800. p. 230.

*Arethusa pendula.* *Willd. sp. pl.* 4.82. *Pursh. am. sept.* 2. p. 590.

*Triphora pendula.* *Nuttall am. gen.* 2. 193.

Herba vix spithamæa, nuda, simplex. Caulis erectus, rubescens, angulatus, basi bulbosus; foliis 3 v. 4, parvis, ovatis, trinerviis, vaginantibus, rubro marginatis. Flores in axillis foliorum superiorum, 2-3, pedunculati, primum cernui, demum erecti. Ovarium trigonum, v. inæqualiter hexagonum, angulis marginatis. Perianthium ringens, sepalis albis, rubescentibus, liberis, exterioribus linearibus patentibus, interioribus oblongo-lanceolatis erectis, ad dorsum columnæ adstantibus. Labellum album, trilobum, cucullatum, unguiculatum, cum columnâ articulatam edque parallelum; lobis lateralibus parvis, erectis, intermedio ovato, rotundato, crispo, patente, disco viridi granuloso. Columna libera, elongata, lobis lateralibus labelli brevior, semiteres, spatulata; gynizo elliptico, marginibus introflexis sursum fornicato. Anthera terminalis, suberecta, cristata, carnosa, bilocularis, cum gynizo parallela, valvis purpureis membranaceis. Pollinia 2, sulco longitudinali exarata, linearia, reniformia, è partibus angulatis constantia.

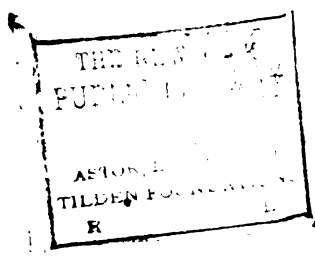
Roots of this curious little plant were collected in Canada, by Mr. David Douglas, for the Horticultural Society, and flowered in an open border in the Garden at Chiswick in August 1824, at which time our drawing was made. It is a very distinct species, much smaller than any other published kind, and easily recognised in any state by its elegant little pendulous white and pink flowers.

We cannot agree with Mr. Nuttall in separating this plant from the genus *Pogonia*, with which it, in our judgment, agrees in all essential particulars. From *Arethusa* it is well distinguished by the segments of the flower being all distinct, and having a nearly equal insertion.

This species seems to be distributed over nearly all North America, from Canada to Georgia. Mr. Nuttall says it is parasitic round the roots of beech trees from New York to Kentucky, and that he has also found it in Canada. Our own specimens were collected near the Alleghany River, by Mr. Goldie.

A small plant, scarcely a span high, naked, simple. *Stem* erect, tinged with red, angular, bulbous at base. *Leaves* 3 or 4, small, ovate, 3-nerved, sheathing, edged with red. *Flowers* in the axillæ of the upper leaves 2-3, stalked, at first drooping, afterwards erect. *Ovary* 3-cornered, or unequally 6-angled; the angles edged. *Perianthium* ringent, with white, pinkish, distinct divisions; outer linear spreading, inner obl. lanceolate, erect, standing on each side of the back of the column. *Lip* white, 3-lobed, cucullate, clawed, jointed with the column, and parallel with it; lateral lobes small, erect; intermediate ovate, rounded, crisp, spreading, with a green granular disk. *Column* distinct, elongated, a little shorter than the lateral lobes of lip,  $\frac{1}{2}$ -round, spatulate; *gynizus* elliptical, vaulted upwards by the inflexed edges. *Anther* terminal, sub-erect, crested, fleshy, 2-celled, parallel with the gynizus; valves purple, membranous. *Pollen-masses* 2, furrowed by a longitudinal line, linear, uniform, powdery, formed of angular particles.

J. L.





*Helianthus scaberrimus* (L.) Desf. *Helianthus scaberrimus* (L.) Desf.

# ENCELIA canescens.

## Hoary Encelia.

### SYNGENESIA POLYGAMIA FRUSTRANEA.

Nat. ord. COMPOSITE. Sect. *Heliantheæ* Cassini.

*ENCELIA* Adans.—Involucrum polyphyllum, imbricatum. Receptaculum conicum, paleaceum. Flosculi disci tubulosi, hermaphroditi; radii ligulati neutri. *Akenia* obovata, compressa, margine villosa, apice emarginata, et calva.—Suffrutices ramosi. Folia alterna, integra, trinervia. Flores terminales, longè pedunculati, subcorymbosi, flavi. Kunth. synopsis, 2.467.

*E. canescens*; foliis ovatis trinerviis mollibus alternis, floribus corymbosis.

Cav. icones. 1. p. 45. t. 61.

Coreopsis limensis. Jacq. ic. 3. t. 594.

*E. canescens*. Lam. encycl. 2.356. Pers. syn. 2.479. Kunth. l. c.

*Pallasia halimifolia*. Willd. sp. pl. 3. 2260. Ait. Kew. ed. 2. 5.137.

Suffrutex 2-pedalis, caule molli, pubescente, terete, ad apicem folioso. Folia lata, ovata, triangularia, obtusa, trinervia, incana, in petiolo sub-decurrentia, basi cuneata, utrinque molliter velutina, longè petiolata: petiolis villosis, superiora integerrima, inferiora convexa subdentata. Flores terminales, gemini, longè pedunculati; pedunculo pilis albis, patentibus, intertextis villosis, suprâ medium bractea solitaria, ovata, sessili, lanata, recurva, subcomplicata. Involucrum villosissimum, duplex, patens, exterius 8-phyllum; foliolis ovato-lanceolatis, obtusis, torquatis, interius foliolis totidem angustioribus, alternis, assurgentibus. Flosculi radii lutei, circiter 12, unilabiati, ligulati, lati, cuneati subplicati, invicem imbricati, omnino steriles, rudimento ovarii abortivo, obsoleto; discoidei parvi, hermaphroditi, infundibulares, basi teretes, glanduloso-pilosi, apicem versùs villis paucis patentibus aspersi, intùs atro-purpurei, in palea cymbiformi, ipsarum longitudine, villosa, graminum glumæ similimè involuti. Antheræ atro-purpureæ basi muticæ, apice membranaceæ ovatæ. Ovarium compressum, tenue, obovatum, truncatum, pilosum, utrinque villis diaphanis marginatum. Pappus nullus. Stylus filiformis, glaber, apice purpureus. Stigmata linearia, recurva, papulosa, atro-purpurea. Receptaculum foveatum, paleis cymbiformibus, suprâ dictis squamatum.

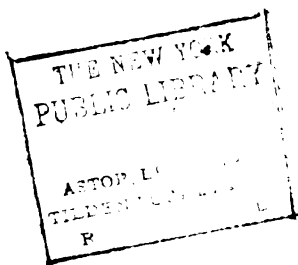
For the introduction of this pretty genus of Composite the public is indebted to Robert Barclay, Esq., of

Bury Hill, by whom our specimens were communicated in April last.

A hardy, green-house shrub, a native of Peru. It differs from *Encelia parvifolia*, in having a hairy, not downy stem; corymbose, not solitary, or nearly solitary, flowers; and leaves with a rounded, not cuneate, base.

An under-shrub, about 2 feet high, with a soft, downy, round stem, leafy at the end. *Leaves* broad, ovate, triangular, blunt, 3-nerved, hoary, running down into the petiole, cuneate at the base, softly velvety on each side, on long villous stalks; the upper entire, the lower convex somewhat toothed. *Flowers* terminal, twin, upon long stalks; *peduncles* villous, with white, spreading, interwoven hairs; above the middle bearing a solitary, ovate, subsessile, woolly, recurved bract, somewhat folded together. *Involucrum* very villous, double, spreading, the *outer* 8-leaved, with ovate-lanceolate, blunt, twisted leaves; the *inner* with as many narrower, assurgent, alternate leaves. *Florets* of the ray yellow, about 12, 1-lipped, ligulate, broad, cuneate, subplicate, imbricated, altogether sterile, with the abortive obsolete rudiment of an ovary; those of the disk small, hermaphrodite, funnel-shaped, round at the base, glandular-hairy, scattered over towards the end with a few spreading hairs, in the inside dark purple, wrapped up in a cymbiform palea of the same length as themselves and villous, very like the glume of a grass. *Anthers* dark purple, unarmed at base, at the end membranous and ovate. *Ovary* compressed, thin, obovate, truncate, hairy, edged on each side with transparent hairs. *Pappus* none. *Style* filiform, smooth, purple at end. *Stigmas* linear, recurved, papulose, dark purple. *Receptacle* foveate and scaly, with the boat-shaped paleæ above mentioned.

J. L.







## ONCIDIUM papilio.

*Trinidad Butterfly-Plant.*

GYNANDRIA MONANDRIA.

Nat. ord. ORCHIDÆÆ. Div. Epidendrææ.  
ONCIDIUM. Suprà fol. 727.

O. *papilio*; foliis solitariis ovalibus pictis patentibus, scapo articulado ancipite paucifloro, sepalis superioribus linearibus longissimis: inferioribus distinctis ovato-lanceolatis undulatis, columnâ bicorni: alis fimbriatis.

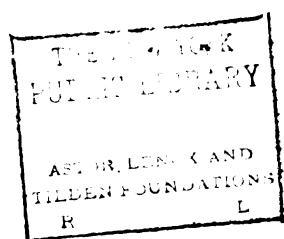
Folia ovalia, patentia, carnosâ, in bulbo compresso subangulato solitaria, suprà fasciis interruptis maculata, subtùs purpureo creberrimè punctata: maculis rotundis viridibus. Scapus radicalis, 3-pedalis, articulatus, nudus, articulis inferioribus teretibus, superioribus ancipitibus, 3-4-uncialibus, margine et disco rubro maculatis, basi squamâ scariosâ instructis. Perianthium patentissimum, diametro (in exempl. spont.) 5-unciarum ab apice sepalis postici ad apicem labelli; sepalis 3 superioribus lineari-spatulatis, longè unguiculatis, erectis, atro-aurantiacis, nunc luteo interruptè fasciatis; inferioribus ovato-lanceolatis, falcatis, undulatis, crispis, labelli longitudine, et cum eo luteis aurantiaco nubilis. Labellum panduriforme, basi cordatum, apice dilatatum, emarginatum, undulatum, disco baseos glanduloso, glandulis pallidis purpureo fasciatis, et formam ranæ cubantis referentibus. Columna brevis, erecta, utrinque alata; alis patentibus, versùs basin quadratis, carnosis, margine laceris, versùs apicem angustioribus fimbriatis, ad ipsam apicem cornubus duobus, subulatis, porrectis, apice glandulâ capitatis, instructis. Anthera terminalis, opercularis, unilocularis, ovata, ad cardinem foveata. Pollinia 2, cereacea, oblonga, collateralia, postice biloba, basi glandulâ latâ rostello affixa.

For this highly curious parasite, the public is indebted to his Excellency Sir Ralph Woodford, Governor of Trinidad, by whom living plants have been sent to several collections in this country. The plant from which our drawing was taken flowered in a stove at Mr. Colvill's Nursery, last March; but not in perfection, the blossoms in our only native specimen having a diameter nearly twice as great as is represented in the accompanying figure, and being much more completely expanded.

We have not succeeded in tracing this plant in any work within our reach. The Butterfly-plant of Santa Cruz, described by West, for which the "Helleborine flore papilionaceo" of Plumier is quoted by authors, is a totally different plant from this. The name has doubtless been suggested by the brilliant colours of the flower, its singular form, which may easily be likened to the wings, body, antennæ, and tongue of a butterfly, and its fluttering motion when hanging from its stalk at the extremity of the weak, elastic, jointed scape.

*Leaves* oval, spreading, fleshy, seated upon a compressed, somewhat angular, solitary bulb, above spotted with interrupted fasciæ, beneath dotted all over with very numerous purple points, with round, green spots among them. *Scape* from the root, 3 feet long, jointed, naked, the lower joints round, the upper 2-edged, 3 or 4 inches long, spotted with red at the edge and disk, and at the base having a scarioso scale. *Flowers* spreading, 5 inches across (in wild specimens) from the tip of the upper sepal to the point of the labellum; the upper sepals linear, spatulate, with long stalks, erect, dark orange, sometimes interrupted with yellow; the lower ovate-lanceolate, falcate, wavy, curled, the length of lip, and like it yellow clouded with orange. *Lip* fiddle-shaped, cordate at base, dilated and emarginate at end, wavy, glandular at base, the glands pale, variegated with purple, and representing the figure of a couchant frog. *Column* short, erect, with spreading, fringed wings.

J. L.



911



*S. Wats. ex.*

*Det. by J. R. Gregory 170 Dec. 1. 1825.*

*M. Hare del.*

## BEAUMONTIA grandiflora.

### *Large-flowered Beaumontia.*

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#### PENTANDRIA MONOGYNIA.

Nat. ord. APOCYNÆE.

**BEAUMONTIA** Wall.—*Calyx* 5-sepalus: *sepalis* foliaceis, æqualibus, erectis. *Corolla* infundibularis, tubo brevi, limbo maximo, campanulato, 5-lobo: lobis erectis. *Stamina* apice tubi inserta, *Antheræ* sagittatæ, imberbes, circa stigma cohærentes. *Squamæ* faucis nullæ. *Ovarium* rotundum depressum. *Stigma* fusiforme. *Fructus* ....? *Semina* hinc comosa.

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*B. grandiflora.* Wallich in literis.

*Echites grandiflora.* Roxb. Hort. Beng. 20. Spreng. sys. veg. 1. p. 634. non Rothii.

*Caulis fruticosus, teres, scandens, glaber.*—*Ramuli pubescentes. Folia opposita, petiolata, oblonga, obtusa, apiculata, basin versùs attenuata, plana, atro-viridia, glabra, subtùs paululum pubescentes. Corymbi terminales, v. axillares, multiflori. Calyx pentaphyllus, pubescens, sepalis oblongis, apiculatis, undulatis, margine replicatis. Corolla maxima, alba, coriacea, infundibularis, pubescens, tubo angusto calyce brevior, limbo campanulato, quinquelobato, lobis brevibus subrotundis, acuminatis, crispis; sinibus rotundatis; intùs nuda, basi mellifera. Stamina 5, in apice tubi inserta, laciniis corollæ alterna, limbo breviora. Filamenta filiformia, apice clavata, basi deorsum incurva, glabra. Antheræ in conum connatæ, circa stigma cohærentes, sagittatæ, glabræ; lobis longis introrsum fulcatis. Ovarium rotundum, depressum, melle viscidum. Stylus filiformis, filamentis longior, et ob stigma cum antheris cohærens, arcuatus. Stigma fusiforme.*

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This fine plant has now been known in gardens in this country for some years, under the name of *Beaumontia grandiflora*, it having been so called by Dr. Wallich, we believe, in compliment to the Lady of Colonel Beaumont, of Bretton Hall, in Yorkshire. But it had not flowered till the individual from which our drawing was made produced its blossoms, in Messrs. Whitley's conservatory, at Fulham.

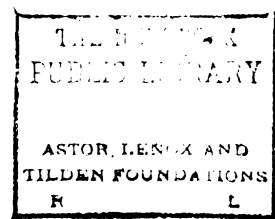
We are requested to state, that the plant which flowered was sent by Dr. Wallich, in 1818, with many

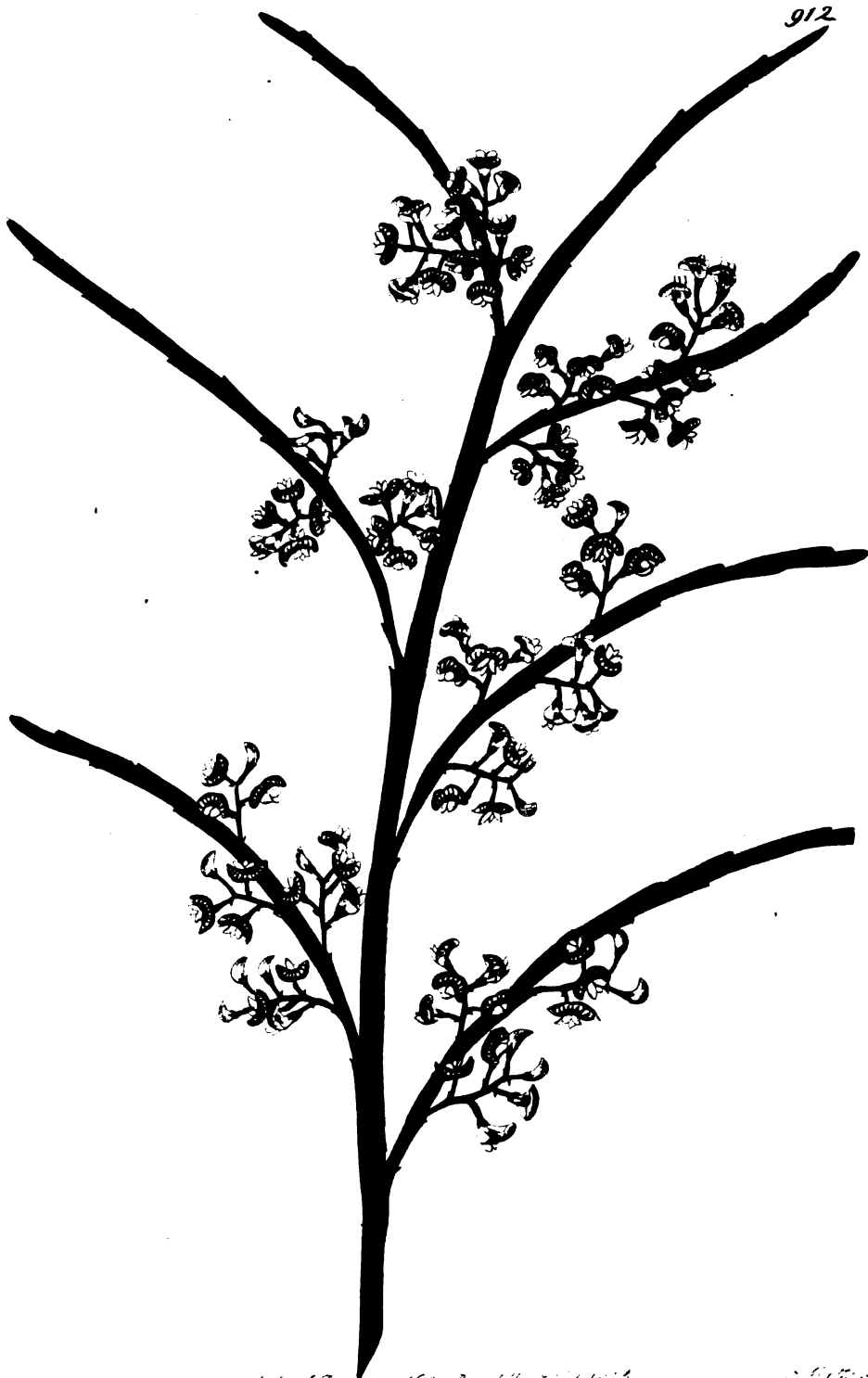
other valuable subjects, to Messrs. Whitleys, under the care of their friend Captain Craigie.

The genus differs from *Echites* in the absence of hypogynous glands, and in the ovarium being of one piece instead of two. It is a native of Chittagong, where it flowers from the beginning of November to the end of June. Our drawing was made in June last.

*Stem* shrubby, round, climbing, smooth. *Branches* pubescent. *Leaves* opposite, stalked, oblong, blunt, point-letted, narrowed towards the base, flat, dark-green, smooth, a little downy beneath. *Corymbs* terminal, or axillary, many-flowered. *Calyx* 5-leaved, downy; leaflets oblong, point-letted, wavy, folded back at edge. *Corolla* very large, white, coriaceous, funnel-shaped, with a narrow tube, shorter than calyx, and a campanulate, 5-lobed limb, of which the lobes are short, roundish, acuminate, crisp: with round sinuses. *Stamens* 5, inserted in the mouth of tube, alternate with segments of corolla, shorter than limb. *Filaments* filiform, clavate at end, curved downwards at the base, smooth. *Ovary* round, depressed, viscid with honey. *Anthers* sagittate, enclosing the fusiform stigma.

J. L.







## CARMICHÆLIA Australis.

*South-Sea Carmichælia.*

## DIADELPHIA DECANDRIA.

Nat. ord. LEGUMINOSÆ Papilionacæ. Br.

CARMICHÆLIA.—Calyx cyathiformis, 5-dentatus. Ovarium polyspermum. Stigma simplex. Legumen oligospermum (1-3 sp.), replo post lapsum valvularum persistente!

Frutex ramosissimus, sub statu florescentiæ sæpius aphyllus. Caulis ramique primarii teretes, teneriores v. plano-compressi v. ancipites, stipulis minutis alternatim dentati. Folia è dentibus ramorum fruticis junioris, ternata v. pinnata, (foliolis 3-7 obcordatis). Racemi simplicissimi è denticulis ramorum; pedicelli basi bractea abbreviata, apice binis minutissimis. Flores parvi. Calycis dentes subæquales, brevissimi. Petala longitudine subæqualia: vexillum lamina latiore quàm longiore, basi absque callis auriculisve; carina obtusa. Filamenta 1-9 *fid.* Antheræ uniformes, subovales. Ovarium lineare, 5-6 spermum. Stylus subulatus, adscendens. Stigma obtusum, imberbe. Semina subreniformia, sinu clauso, umbilico nudo. Brown MSS.

C. Australis. Brown MSS.

*Lotus arboreus*; leguminibus quinatis, foliolis obcordatis, caule arboreo. Forst. prodr. n. 2.278. Willd. sp. pl. 3.1392. Pers. syn. 2.354.

For the above character of this very remarkable genus we are indebted to the kindness of Mr. Brown, who, fortunately for science, is in possession of perfectly ripe fruit. The plant was originally discovered in 1769, by Sir Joseph Banks and Dr. Solander, on the eastern side of the northern island of New Zealand, between latitudes 37°—39° south; and an excellent description of it, from the hand of Dr. Solander, exists in the Banksian Library, among the manuscripts of that celebrated voyage, by which the botanical riches of the South Seas were first made known to Europe. George Forster, who afterwards met with it in Dusky Bay, referred it to the genus *Lotus*; and it is remarkable enough, that Willdenow, who appears to have seen the pods, retains it in the genus where Forster placed it. These differ from the legume either of *Lotus* or of any other known genus, and offer a new form of fruit

among Leguminosæ, not less distinct than extraordinary. The valves, instead of dividing the pod into two equal portions, as usually happens in papilionaceous plants, or by their cohesion forming an indehiscent fruit, separate in Carmichælia, both from the placentiferous and barren margins which are left upon the plant after the seeds have fallen, and resemble the persistent placentas of a cruciferous capsule with an obliterated dissepiment. The term *replum*, which is employed in Mr. Brown's generic character to designate the persistent circumscription of the legume, was used by Vitruvius for the frame of a door, and, we believe, has been already applied to the purposes of botanical description in the sense in which it is used here, which is certainly unexceptionable.

The garden plant has been compared by Mr. Brown with the specimens from Cook's voyage, in his own collection, and with an authentic specimen from George Forster's Herbarium, as well as by ourselves with others from some part of New Zealand; and no difference has been detected between them.

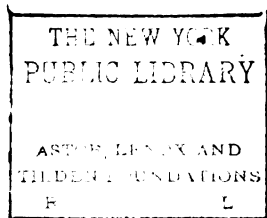
In explanation of the name applied to this plant, we make the following extract from Mr. Brown's communication upon the subject:

"I have named the genus in honour of my friend, Captain Dugald Carmichael, F.L.S., a very accurate Botanist, whose interesting account of the Island of Tristan da Cunha is published in the 12th volume of the Linnæan Society's Transactions, and to whom I am indebted for extensive collections, and many excellent descriptions of the plants of the island of Mauritius and the Cape of Good Hope."

A hardy greenhouse plant, of the easiest cultivation, forming a branched, leafless bush, with its young branches compressed or two-edged, and toothed on their edges by minute stipulæ. *Leaves* of the young plant are ternate or pinnate, with 3-7 obcordate leaflets. The *Flowers* are small, and of an agreeable lilac colour, and are disposed in little simple racemes, appearing in profusion from the denticulations of the branches. *Calyx* cup-shaped, with 5 nearly equal, very short teeth. *Petals* of nearly equal length: *vexillum* broader than long, without any calli or auricles at the base; *carina* obtuse. *Anthers* uniform, oval. *Ovary* linear, 5-6 seeded. *Style* subulate, ascending. *Stigma* simple, obtuse, beardless. *Pod* 4-seeded (1-3), with the frame persistent after the fall of the valves. *Seeds* uniform, with the recess closed up, and the umbilicus naked.

Our drawing was made in Mr. Colvill's Nursery, in March last.

J. L.





M. Karsdel.

Del. by J. Polakow 169 Piceville, Sep. 1825.

J. W. H. sc.

# OXYLOBIUM retusum.

*Netted-leaved Oxylobium.*

DECANDRIA MONOGYNIA.

Nat. ord. LEGUMINOSÆ.

OXYLOBIUM. *Suprà vol. 5. fol. 392.*

*O. retusum*; foliis ovatis v. oblongis retusis reticulatis, corymbis capitatis foliis brevioribus.

Chorizema coriacea. *Smith in Linn. Trans. 9.254. Rees's Cycl. in loco.*  
Oxylobium retusum. *Brown prodr. fl. Nov. Holl. vol. 2. ined.*

Rami subangulati, sulcati, densissimè cinereo-velutini. Stipulæ subulatæ, erectæ, tomentosæ. Folia petiolata, petiolo brevi, tomentoso; oblonga, v. ovata, retusa, apiculata, superficie eleganter reticulatâ. Racemi capitato-corymbosi, pedunculati, axillares v. terminales, foliis multò breviores. Calyx campanulatus, quinque-dentatus, villosissimus, basi bracteatus, in exemplaribus spontaneis ferrugineus, in hortensibus argenteus. Corolla aurantiaca, purpureo venosa. Vexillum transversum, erectum, planum emarginatum. Alæ et Carina compressa, porrectæ, æquilongæ, purpureæ, vexilli longitudine.

The genus *Oxylobium*, as defined by Mr. Brown in the second edition of *Hortus Kewensis*, is distinguished from *Chorizema* of *Labillardiere* by its calyx being nearly regular, not distinctly bilabiate; by the carina being compressed, and as long as the alæ, not inflated and shorter than alæ; and by the pod being ovate and sharp-pointed. In the characters of the flower, the subject of this article agrees better with *Oxylobium* than with *Chorizema*, and Mr. Brown has been so kind as to inform us, that the pod is that of *Oxylobium*, to which genus he has referred it under the name we have adopted.

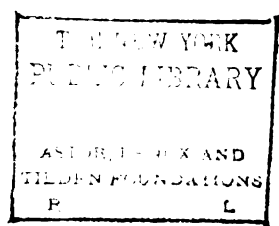
A handsome greenhouse shrub, native of King George's Sound in New Holland, whence seeds were brought by Mr. J. Richardson. The specimens from which our draw-

ing was made were communicated from Mr. Colvill's Nursery, under the name of *Callistachys capitata*. Wild specimens, collected in King George's Sound by Archibald Menzies, Esq., and preserved in the Banksian Herbarium, present two forms of leaves, one ovate and the other oblong; but they are obviously only different states of the same species.

The leaves, as represented in our plate, are much too acute.

*Branches* somewhat angular, furrowed, densely velvety, and ash-coloured. *Stipules* subulate, erect, downy. *Leaves* stalked, with a short, downy footstalk, oblong or ovate, retuse, with a little point, their surface elegantly reticulated with prominent veins. *Racemes* capitate-corymbose, stalked, axillary or terminal, much shorter than the leaves. *Calyx* campanulate, 5-toothed, very villous, with a bractea at base, in wild specimens ferruginous, in the garden specimens silvery. *Corolla* orange-coloured, with purple veins. *Vexillum* transverse, erect, flat, emarginate. *Wings* and *Keel* projecting, purple, the length of vexillum.

J. L.





*Lab. 16*

*Det. by J. C. Gregory 175. Dec. 1825*

*J. W. 1825*



# STYLIDIUM adnatum.

## *Dwarf Stylidium.*

### GYNANDRIA DIANDRIA.

Nat. ord. STYLIDEE. R. Br.

STYLIDIUM. *Suprà* vol. 1. p. 90.

Div. II. D.—*Racemi caulem foliosum terminantes. Capsula compressa, lanceolata v. linearis, collo coarctato.*

S. *adnatum*; caule multiplici: partialibus indivisis, foliis linearibus, spicâ subsessili divisâ: partialibus paucifloris, capsulis basi adnatis linearibus: collo calyce brevioris; loculo superiore vacuo angustissimo. *Br. prodr.* 1.572.

*Caules simplices, humiles, 4-6 unciales, sulcati, glabri, foliosi. Folia linearia, spatulata, patentia, glabra, sub lente minutissime papillosa, in caule sparsa, ad summitatem verticillata, congesta, longiora. Spica terminalis, multiflora, congesta, floribus bracteatis, nunc sessilibus, nunc 2-4-natis pedunculatis. Cal. cor. et aliæ floris partes non visæ. Capsulæ basi cum proximis, si non solitariæ, adnatæ, divaricatæ, lineari-lanceolatæ, collo coarctato triquetra, biloculares, loculo dorsali minimo vacuo, ventrali ventricoso polyspermo. Semina minuta, oblonga, castanea, glabra, inæqualiter sulcata; testa tenui. Embryo . . . .*

For the opportunity of figuring this species of *Stylidium* we are obliged to Mr John Mackay, to whom seeds of it had been sent from King George's Sound, New Holland, by Mr. William Baxter, in 1824.

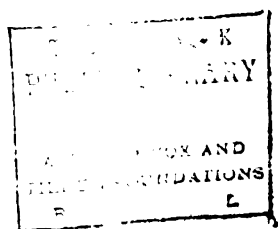
It is scarcely more than an annual, but one of the most beautiful little plants we ever saw. The fine green of the neatly-arranged foliage contrasts well with the rich flesh-colour of the flowers.

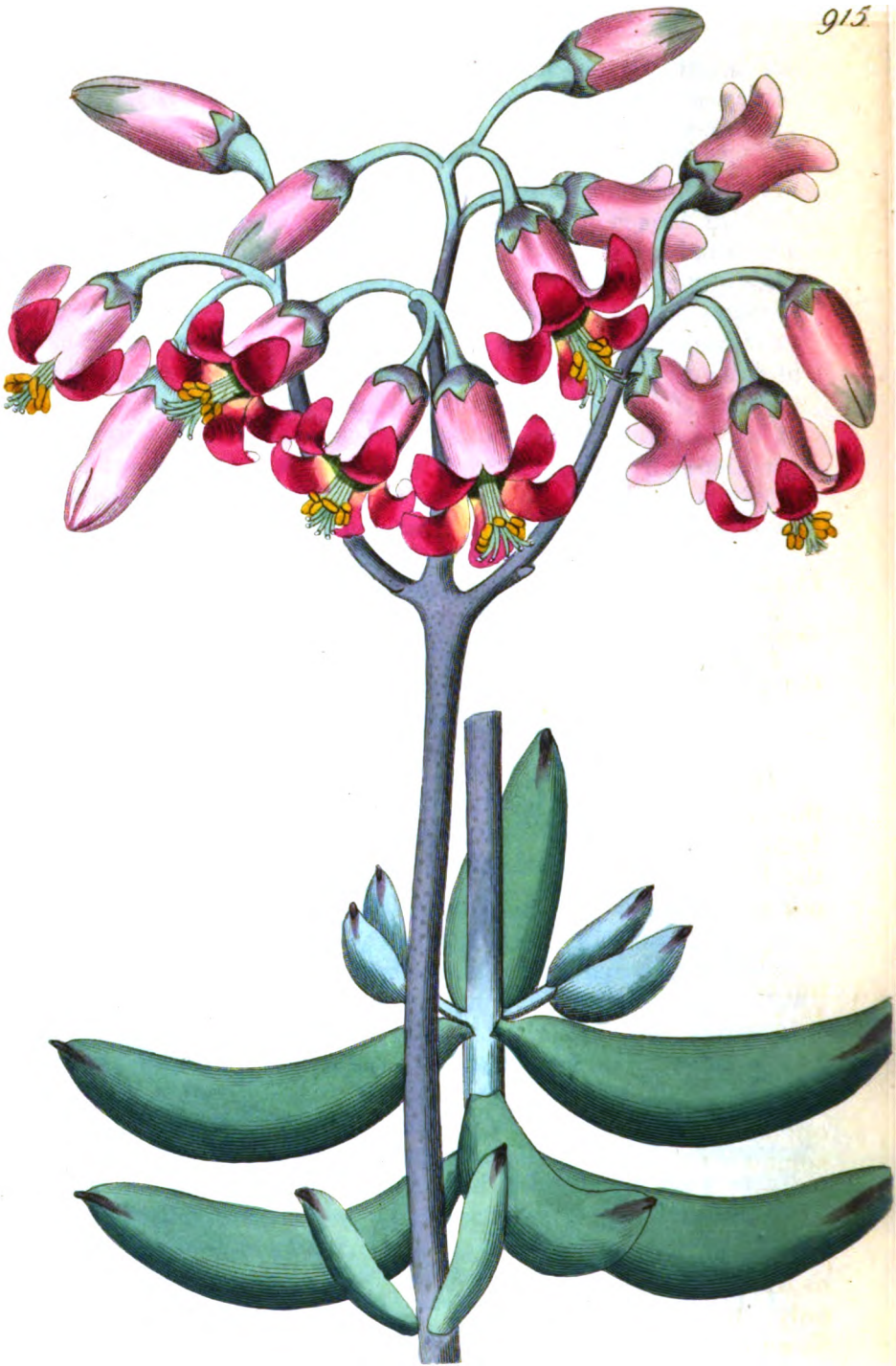
We have referred it to the *S. adnatum* of Mr. Brown, although there appears to be some differences between the plants raised in this country and the wild specimens examined by Mr. Brown. We find the leaves linear-spatulate rather than perfectly linear, and the capsule

has a somewhat different outline, nor do we think the neck of it can be well considered shorter than the calyx. In the singular structure of its capsule, it agrees perfectly with *S. adnatum*. In the latter respect, the genus *Stylidium* offers some important deviations from the ordinary structure of Capsules, and exhibits those differences in such perfect gradation, as to make it impossible to doubt the real nature of the fruit of this and other incompletely formed species. The common structure of the capsule of *Stylidium* is bilocular, with a septum horizontal with respect to the axis of inflorescence, and bearing on each of its surfaces a polyspermous placenta. But in *S. foliatum* the upper cell becomes contracted in its size, so as to be much narrower than the lower cell, the placenta remaining perfect; and in the species before us, the contraction of the upper cell is carried still farther, and is accompanied by the complete obliteration of the placenta belonging to it, the whole dimensions of the cell not exceeding that of a fine tube. This fact, Mr. Brown has remarked to us, explains the real nature of the capsule of the genus *Lysipoma* of Kunth, in which the placenta is described as parietal; while, in fact, it is only apparently so, in consequence of a similar obliteration of one cell and placenta, the whole cavity of the capsule being occupied by the complete cell, the placenta of which is therefore necessarily pushed to one side, and assumes the appearance of being parietal, as in the *S. adnatum* now before us.

*Stems* simple, low, not more than 5 or 6 inches high, furrowed, smooth, leafy. *Leaves* linear-spatulate, spreading, smooth, minutely papillose if examined with a microscope, scattered upon the stem, but at the top of the stem whorled, and packed closely together. *Spike* terminal, many-flowered, clustered. *Flowers* bracteate, sometimes sessile, sometimes 2 or 4 together on a short stalk. *Capsules*, when not solitary, cohering at their base with those next them, spreading, linear-lanceolate, with a contracted neck, 3-cornered, 2-celled; the dorsal cell very small, empty, the ventral one many-seeded. *Seeds* minute, oblong, chesnut-coloured, smooth, unequally furrowed, with a thin testa.

J. L.





Carl. L.

Salvia officinalis L. f. *Salvia* L. f. 1855.

1855.

# COTYLEDON decussata.

## Cross-leaved Cotyledon.

### DECANDRIA PENTAGYNIA.

Nat. ord. CRASSULACEÆ.

COTYLEDON L.—*Calyx* 5-partitus. *Corolla* monopetala, tubulosa, 5-fida. *Stamina* 10, rarius 5, corollæ inserta. *Germina* 5. *Capsule* 5.—*Herbæ aut Suffrutices. Folia opposita aut alterna, interdum pinnata. Flores terminales, corymbosi, aut spicati.* Juss. gen. 207.

*C. decussata*; fruticosa, foliis concinnè decussatis subteretibus mucronatis glaucis, floribus paniculatis pendulis. *Bot. Mag.* 2518.

*Cotyledon* foliis angustis oppositis, cum limbo purpureo, floribus pendulis. *Burm. afr. t.* 22. *f.* 1.

*C. papillaris.* *Haw. Suppl. succ. p.* 21. *revis. succ.* 20 non *Thunbergii*.

Our drawing of this species of *Cotyledon* was made from the collection of Mr. Hood, of South Lambeth, in May 1824, a figure having been at the same time furnished for the Botanical Magazine, a circumstance of which we were not at the time aware.

Not having seen either plant or specimen, we are unable to offer any original description of the species. In the work to which we have already alluded it is thus described.

*Stem* shrubby, erect, but very little branched. *Leaves* opposite crosswise, sessile, fleshy, nearly cylindrical, somewhat flattened on the upper side, glaucous, or even hoary, narrowed at both ends, varying somewhat in shape, and terminated with a dark purple mucro. *Common peduncle* terminal, erect, smooth, half a foot long, purple, nearly naked, or furnished with a pair of smaller leaves only, terminated by a panicle of many pendulous red flowers. *Calyx* 5-toothed, four times shorter than the tube

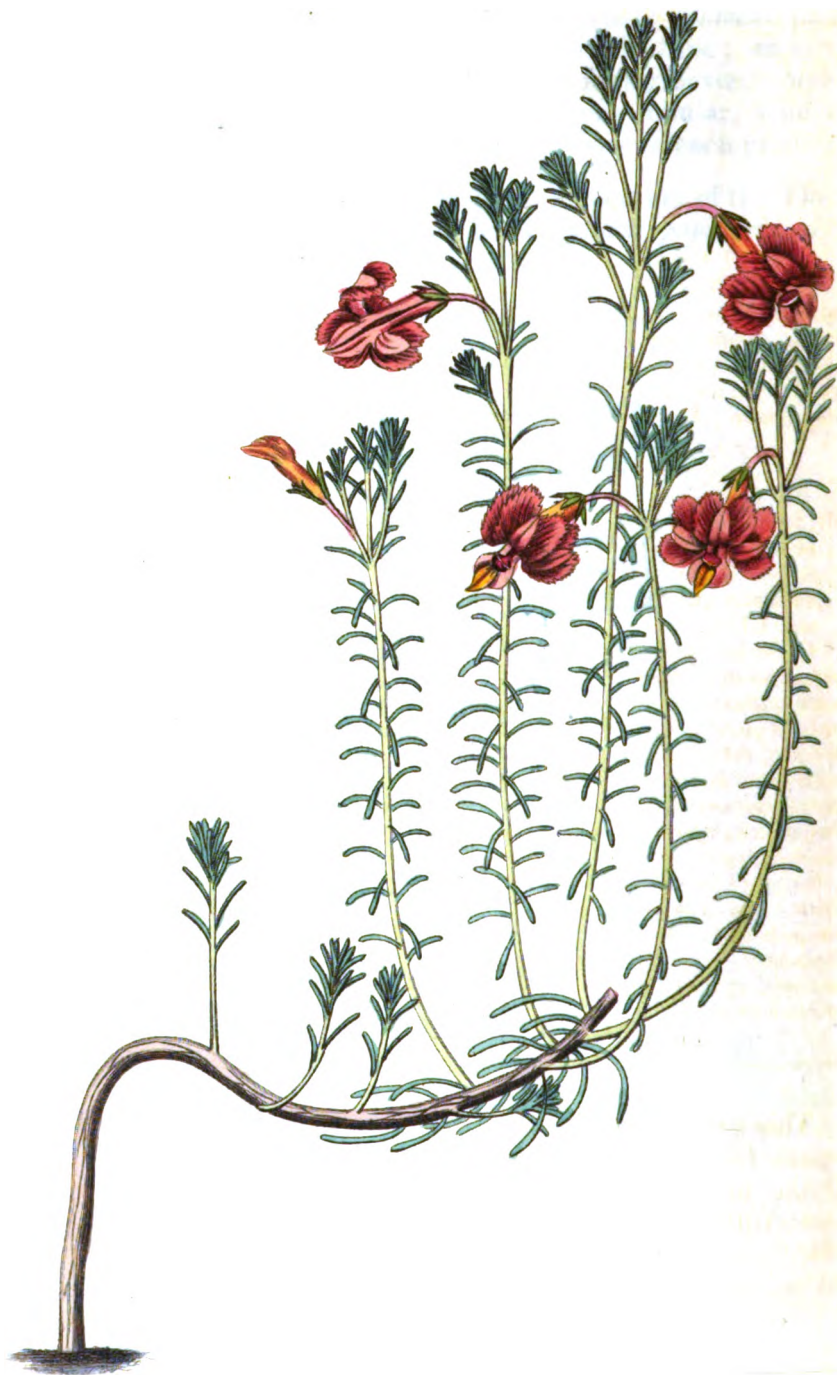
of the corolla. *Corolla* large, shewy, red ; *tube* cylindrical, nearly an inch long ; *limb* half the length, divided into 5 laciniae, rolled back. *Stamens* 10, exserted : *filaments* pass through a hairy ring, near the bottom of the tube ; *anthers*, before the flower opens, upright, with four grooves. *Styles* 5, rather longer than stamens : *stigmas* lobular, villous. *Nectaries* 5 concave scales, one at the base of each germen.

There can be no doubt, after an inspection of the *Flora Capensis* of Thunberg, that his *Cotyledon papillaris* is a species altogether distinct from this.

J. L.

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*Asclepias tuberosa*

Subs by J. R. Gregory 169 Piccardilly Sep 1825.

J. Walter sc.



## LECHENAULTIA formosa.

*Beautiful Lechenaultia.*

## PENTANDRIA MONOGYNIA.

Nat. ord. GOODENOVIÆ. R. Br.

**LECHENAULTIA.** R. Br.—*Calyx* superus. *Corolla* tubo hinc longitudinaliter fisso. *Antheræ* subanthesi cohærentes. *Pollinis* granula composita. *Stigma* obsoletum, in fundo indusii bilabiati. *Capsula* prismatica, bilocularis, 4-valvis, valvis oppositis medio septiferis. *Semina* cubica v. cylindracea, nucamentacea.—*Fruticuli* (raro *Herbæ*) *glabri*, *foliis angustis*, *integerrimis*. *Flores axillares v. terminales, subsolitarii*. Br. Prodr. 1.581.

Div. I.—*Fruticuli ericifolii*. *Flores axillares v. terminales*. *Capsula valvata*. *Semina cubica*.

L. *formosa*; floribus axillaribus solitariis ebracteatis nutantibus, corollis bilabiatis glabris. Br. l. c. Rom. et Sch. v. 5. p. 34. Sprengel syst. veg. 1.719.

*Fruticulus glaber, multicaulis*. *Ramuli gracillimi, angulati*. *Folia sparsa, linearia, triquetra, patentia*. *Flores aurantiaci, e summitate ramulorum axillares, solitarii, nutantes, pedunculati; pedunculo filiformi, foliis duplo longiore*. *Calyx 5-phyllus, patens, sepalis linearibus acutis*. *Corolla bilabiata, resupinata, hinc (dorso?) fissa, tubo subcylindrico, glabro, intus versus basin hirsuto, 5-angulati, angulis cum laciniis corollæ alternis, labio altero (superiore?) lobis duobus semi-elliptico-lanceolatis, acuminatis, conniventibus, altero (inferiore?) lobis tribus, patentibus, unguiculatis, altè obcordatis, apiculatis, binerviis, areolâ mediâ planè: lateralibus subplicatis*. *Stamina 5, basi tubi inserta, hirsutie tubi paulo longiora*. *Filamenta filiformia, glabra, basi dilatata*. *Antheræ lineares, . . . . . Ovarium inferum, cum pedunculo continuum*. *Stylus tubi corollæ longitudine, rectus, parçè glandulosus, versùs apicem sensim attenuatus*. *Indusium purpureum, tomentosum, cyathiforme compressum, bilabiatum*. *Stigma parvum, transversum, in basi indusii*.

This genus was instituted by Mr. Brown, in his *Prodromus Floræ Novæ Hollandiæ*; and is distinguished from all the neighbouring genera of its order, and especially from *Anthotium*, by having each of the granules of its pollen composed of 4 little spherical bodies; a minute but beautiful distinction.

The plant from which our drawing was taken, was raised in 1824, among a multitude of other curious things, by Mr. Mackay, of the Belgrave Nursery, Pimlico, at his establishment, Upper Clapton. The seed had been collected at King George's Sound, by Mr. William Baxter.

A pretty little shrub, producing its delicate orange-coloured flowers in June.

The indusium, or peculiar covering to the stigma, is highly curious, and much developed in this plant, forming a compressed, two-lipped purple cup, covered with soft down on the outside, and completely enclosing the green viscid stigma which occupies the lowest part of its cavity. It appears to serve the purpose of scooping the pollen out of the anthers of the flower to which it belongs, and retaining it there while necessary; at least all the indusia we have examined were uniformly filled with granules of pollen. With respect to the nature of that singular organ, or appendage itself, we can have no opinion to offer so valuable as that already given upon the subject by Mr. Brown, in his General Remarks upon the Botany of New Holland, appended to Captain Flinders's Voyage.

“This order I have formerly separated from *Campanulaceæ*, considering the peculiar membranous cup surrounding the stigma, along with a certain irregularity in the corolla, as sufficient distinguishing characters, especially as these are accompanied by other differences which appear to me important. In Goodenoviæ I have not included Lobelia, which, however, has also an irregular corolla, and although it wants the peculiar indusium of the stigma, has in its place a fasciculus or pencil of hairs surrounding that organ. This structure has been regarded by Jussieu and Richard, in a very learned memoir more recently written on the subject, analogous to the indusium of Goodenoviæ, to which they have therefore added Lobelia, and derived the name of the order from this, its most extensive and best known genus. To the opinion of these authors I hesitate to accede, chiefly for the following reasons :

1st. In Goodenoviæ, the deeper fissure of the tube of the corolla exists in its inner or upper side, a circumstance readily determined in those species having simple spikes. In Lobelia, on the other hand, the corresponding fissure is

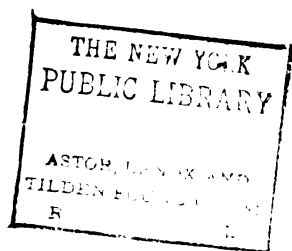
on the outer or lower side ; a fact, however, which can only be ascertained before the opening of the corolla, the flowers, in the greater number of species, becoming resupinate in the expanded state,—a circumstance which does not appear to have been before remarked. The relation, therefore, not only of the corolla, but of the calyx and stamina to the axis of inflorescence, is different in these two tribes.

2dly. In *Goodenoviæ*, the greater part of the tube of the corolla is formed by the cohesion of 5 laciniaë, the distinct inflected margins of which are, in most cases, visible nearly to its base. These laciniaë are, in some cases, unconnected, as in *Diaspasis*, and more remarkably still, in *Cyphia*, which is actually pentapetalous. I have observed no such structure in *Lobelia*.

3dly. At the period of bursting of the antheræ, the stigma in *Lobelia* is almost completely evolved, and capable of receiving impregnation from the pollen of the same flower: the function, therefore, of its surrounding pencil is similar to that of the hairs, which are almost equally obvious in many compositæ, especially *Cinarocephalæ*. On the contrary, in *Goodenoviæ*, the stigma at the same period is hardly visible, and is certainly not then capable of receiving impregnation from the pollen of its proper flower: it is, therefore, either impregnated by the antheræ of different flowers, or, in some cases, at a more advanced stage, by the pollen of its own antheræ, which is received and retained in the *Indusium*. To these arguments for the exclusion of *Lobelia* I may add, that, in the greater part of *Goodenoviæ*, with dehiscent fruit, the dissepiment is parallel to the valves of the capsule, in which respect they differ equally from *Lobelia* and the valvular-fruited *Campanulacæ*; and lastly, that many species of *Lobelia*, as well as *Campanulacæ*, contain a milky juice, of which there is no instance in *Goodenoviæ*. If, therefore, in *Lobelia* the pencil surrounding the stigma, and the irregularity of the Corolla, which, however, in some species is hardly perceptible, be considered as characters sufficient to separate this extensive genus from *Campanulacæ*, it may form a separate order, admitting, perhaps, of subdivision into several distinct genera."

A smooth, many-stemmed, little *shrub*. *Branches* very slender, angular. *Leaves* scattered, linear, 3-cornered, spreading. *Flowers* orange-coloured, axillary at the top of the little branches, solitary, nodding, stalked. *Peduncle* filiform, twice as long as leaves. *Calyx* 5-leaved, spreading, with linear, acute sepals. *Corolla* 2-lipped, resupinate, slit on one side; *tube* subcylindrical, smooth, hairy inside at the base, 5-angled, angles alternate with segments of corolla; one lip consisting of two half-elliptical-lanceolate, acuminate, conniving lobes, the other lip with three spreading, clawed, deeply obcordate, point-letted lobes, which are 2-nerved, the middle space being flat, the lateral spaces plaited. *Stamens* 5, inserted at the base of the tube, and a little longer than its hairiness. *Filaments* filiform, smooth, dilated at base. *Anthers* linear. *Ovary* inferior, continuous with the peduncle. *Style* the length of tube of corolla, straight, with a few glands, narrowed by degrees towards the end. *Indusium* purple, downy, cup-shaped, compressed, 2-lipped. *Stigma* small, transverse, lying in the bottom of indusium.

J. L.





*M. Hunt del.*

*Printed by J. G. Pindar, 170 Piccadilly, Sep. 11/825.*

*J. W. H. sc.*

**HIBISCUS racemosus,***Nepal Hibiscus.*—◆—  
**MONADELPHIA POLYANDRIA.***Nat. ord.* MALVACEÆ.*HIBISCUS.*—*Suprà*, vol. 10. fol. 860.

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*H. racemosus*; caule-fruticoso hispido pruriante, foliis 5-lobis longè pedunculatis cordato-subrotundis serratis tomentosis, racemis terminalibus.

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We must take some future opportunity of ascertaining the station which is to be assigned to this species in the genus *Hibiscus*, not having had an opportunity of inspecting the flowers. It does not appear referable to any published species, nor have we seen it in any collection of dried plants.

It is a shrubby plant, producing blossoms in abundance, and was raised at Mr. Colvill's Nursery, from Nepal seeds, communicated by Edward Rudge, Esq.; it has also been obtained, at the same establishment, from others given to Mr. Colvill by Mr. Hood, of Vauxhall, under the name of *Hibiscus racemosus*. The stem is covered over with an infinite number of acicular, stellate, transparent hairs, which, upon being pressed, excite a stinging sensation, like *Hibiscus pruriens*, to which we suspect this plant to be nearly allied. The foot-stalks are more than twice as long as the leaves, ascending, round, and covered with a soft hairiness.

J. L.

We are informed by the Honourable and Reverend William Herbert, that our drawing of this plant was made, some years since, from a sketch and specimen supplied from his collection at Spofforth. Mr. Herbert is of opinion that the species is distinct both from the *I. grandiflora* of Roxburgh, and the *Ipomæa latiflora* of Desrousseaux. Having, as we stated at the time of publishing the plant, had no opportunity of seeing it, we are glad to avail ourselves of the following description and history of the species, for which we are obliged to Mr. Herbert, who proposes to call it

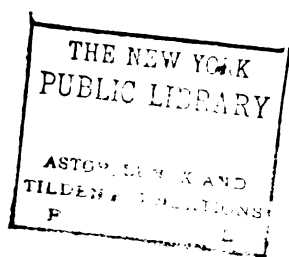
IPOMÆA noctiluca.

“*Planta* perennis, sepiaria; *caulis* vix suffruticosus, volubilis, glaber, subrubescens. *Folia* glabra, sinu profundo ad basin excisa, acuminata, acumine angusto producto, 3-5-uncialia, petiolo parte superiore canaliculato, 1-7-unciali, foliis plerumque longiore, ad basin foliorum tomentosus. *Pedunculi* axillares, 1-5-flori, 1-5-unciales, subrubescens, glabri, pedicellis carnosus parte superiore crassioribus, augescente germine cum fructu nutantibus. *Calyx* brevis, unguiculatus, subrubescens, foliolis apice rotundato eroso, exteriorum trium costâ mediâ in unguem reflexam, interiorum duorum superioris in unguem longam, inferioris in brevem productâ. *Corolla* limbo 5½-unciali expanso, breviter quinque-lobo, albo, lobis sub-rotundatis, latere exteriore radiis quinque viridibus notato; *tubo* cylindrico, 3½-unciali, pallidè virente, ad basin albicante. *Stamina* faucem exsuperantia; *filamenta* alba, basi pubescentia. *Antheræ* pallidissimè flavescens. *Stigma* rotundatè bilobum, album. *Capsula* uncialis, ovalis, longè acuminata, bilocularis, loculis hispermis. *Semina* glabra, alba, oblonga, apice acuminato, obsolete trigona, uno latere planiusculo, duobus rotundatis, quorum alterum angustius. *Flores* nocturni, odorati.” *Herbert MS.*

“Raised from seed from Manilla in 1813, labelled Moonflower, and since from Chinese. It flowers regularly at Spofforth after the two equinoxes. Differs from *Ipomæa bona nox*, in being of inferior stature, flowering even in a pot of which the diameter is less than that of its flower, whereas *bona nox* climbs to the top of the loftiest trees, with a stem as thick as a man's wrist; in having smooth branches without spinous roots; in not producing sarmentose shoots with halbert-shaped leaves in the autumn, as *bona nox* does; in its leaves being less glossy, paler, flatter, and more rounded, with a long taper point; the outer leaflets of the calyx having the claws shorter, and bent back, or standing out, instead of being awned with the points crossing each other; in its seeds being white, instead of dark brown; in its flowers being larger, produced after the equinoxes in our stoves, where *bona nox* flowers in the summer. *Ipomæa grandiflora* of Roxburgh, raised several times from Bengal seeds, was similar to *bona nox*. I never received seed of *noctiluca* from Bengal, but I sent them to Calcutta about the year 1819.” *Herbert MS.*

J. L.







*W. B. Wood, del.*

*Pub. by J. Ridgway 109 Piccadilly Oct 1 1895.*

*W. B. Wood, del.*

## JASMINUM trinerve.

*Three-nerved Jasmine.*

DIANDRIA MONOGYNIA.

Nat. ord. JASMINEÆ.

JASMINUM. Vide *suprà* vol. 1. fol. 1.*Div. foliis simplicibus.*

*J. trinerve*; scandens, glaberrimum, foliis simplicibus ovato-oblongis acuminatis trinerviis, laciniis calycis subulatis (6-7) abbreviatis, corollæ lanceolatis (7-8) tubo multò brevioribus.

*J. trinerve.* Vahl *symb.* 3. p. 2. *enum.* 1. p. 28. Willd. *sp. pl.* 1. 38. *Pers. syn.* 1.7. Rom. et Schultes *sp. pl.* 1.81. Link. *enum.* 1.31.

*Volubile, glaberrimum, altè scandens.* Rami teretes, atrovirides. Folia opposita, simplicia, petiolata, ovato-oblonga, acuminata, trinervia, venis paucis transversis versùs apicem ferè utrinque immersis. Cymis paucifloris, terminales, glabri, bracteis subulatis persistentibus, patentibus. Calyx glaberrimus, laciniis 6-7 subulatis, obtusis, tubo corollæ multoties brevioribus. Corolla alba, tubo cylindrico paulò versùs apicem clavato, limbo 7-8 partite plano; laciniis æqualibus, lanceolatis, tubo ad minimum duplò brevioribus.

As far as we can judge by Vahl's description of *Jasminum trinerve*, it appears to us that there is no material difference between his plant and the present; the only point in which they do not agree being the compound nature of the inflorescence of this plant, and the solitary flowers of *J. trinerve*. But this difference cannot be esteemed important, it having been remarked by Roxburgh, that the flowers of his *Jasminum trinerve* were solitary the first year the plant blossomed in the Botanic Garden, Calcutta, but became nine in a succeeding season. We have not, however, met with any authentic specimens of Vahl's species.

As to the *Jasminum trinerve* of the *Flora indica*, although no one has remarked the great discrepancy between the accounts of Roxburgh and of Vahl, it seems to us

that it must be a totally different plant from the *J. trinerve* of the latter. Roxburgh describes his species with short petioles, having a remarkable joint in their middle, a calyx of six subulate segments, nearly half as long as the tube of the corolla; and with a large corolla, the segments of which are filiform, and an inch and half in length. With none of these characters does the subject of the present article agree. We may add, that *J. trinerve* of Vahl is a native of Java, while Roxburgh's species is found in forests near Sylhet.

For the above reasons, the synonyms of Roxburgh's *J. trinerve* may be amended thus:

*J. stenopetalum*; scandens, lævigatum, foliis simplicibus, ovato-lanceolatis acuminatis trinerviis, laciniis calycis subulatis dimidio tubi longitudine, corollæ (6-8) filiformibus tubo multò longioribus.

*J. trinerve*. Roxb. *Fl. Ind.* 1.91. *Rom. et Schultes sp. pl. mant.* 7.89. *Ker. in Bot. Reg.* 9. in *app.* non Vahl.

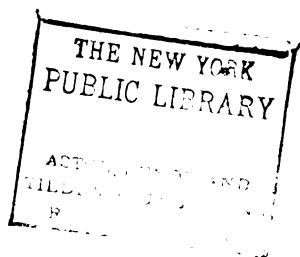
To *J. simplicifolium*, the subject of this article is nearly related, but that species may at once be distinguished by its leaves not being 3-nerved. We also find, in wild specimens from the Friendly Islands, formerly communicated to us by Sir Joseph Banks, that the calycine segments of *J. simplicifolium* are downy; but we are uncertain whether that is a permanent character.

We do not know upon what authority the *Mogorium acuminatum* of Lamarck, described with cirrhose petioles, is referred to *J. trinerve* as a synonymous plant. Persoon retains it as a distinct species.

Our drawing was made at Mr. Colvill's Nursery.

A robust stove plant, twining to a great length before it flowers. The *branches* are round, and dark green; the *leaves* opposite, simple, stalked, ovate-oblong, acuminate, 3-nerved, with a few transverse veins towards the end, which are almost immersed on both sides. *Cymes* few-flowered, terminal, smooth, with subulate persistent spreading bracts. *Calyx* quite smooth, with 6 or 7 subulate blunt segments, which are much shorter than the tube of the corolla. *Corolla* white, with a cylindrical tube, which is a little thickened towards the end, and a 7-8 parted flat limb, the segments of which are equal and lanceolate, and at least twice as short as the tube.

J. L.





*N. Hest del.*

*Printed by F. Ridgway, 16, Pall Mall, London, W. 1825*

*J. White sculp.*

## ROSA microphylla.

### *Small-leaved Chinese Rose.*

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#### ICOSANDRIA POLYGYNIA.

Nat. ord. ROSACEÆ veræ.  
ROSA. Suprà vol. 1. fol. 46.

- 
- Div. ix. Caninæ. Aculei æquales adunci. Foliola ovata eglandulosa, serraturis conniventibus. Sepala decidua. Discus incrassatus faucem claudens. Surculi majorum arcuati. Lindley.*  
*R. microphylla*; foliolis nitidis argutè serratis, calyce aculeis densissimis muricato, sepalis brevibus latè ovatis apiculatis. *Lindl. ros. mon.* 146.  
*R. microphylla. Roxb. fl. ind. ined. Lindley ros. mon. p. 9. ed. gall. p. 104. Trattinn. ros. 2. fol. 194.*
- 

The earliest information European Botanists received of this plant, was through a collection of Chinese drawings in the possession of Mr. Colebrooke; upon the authority of which it was first taken up in any scientific arrangement. It was originally supposed to be related to the Macartney Rose, chiefly on account of what appeared in the drawing to be large pectinated bractææ. But upon a subsequent examination of dried specimens sent from the Botanic Garden Calcutta, it was ascertained to be referable to the same section as the *Rosa indica* of the gardens.

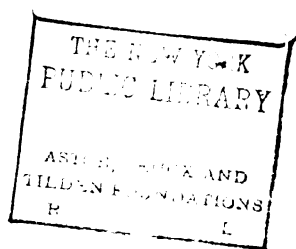
The living plant does not appear to differ, in any respect, from that of the Botanic Garden Calcutta, whence it is to be presumed that the individuals now in this country were derived. Probably it will not be found more tender than other kinds of Chinese Roses, but its extreme rarity has hitherto prevented its being tried in the open air. Our drawing was made last July, from a plant in a greenhouse at Mr. Colvill's Nursery, where it has now flowered for the first time in Europe.

In some nurseries we have been shewn it as a new double yellow China Rose. The Chinese are said to call it *Hoi-tong-hong*. It is the most elegant of all the roses we are acquainted with, and in the *Rosarum Monographia* of the writer of this article, is thus described :

A little, compact, bright green plant. *Branches* naked, slender, somewhat flexuose; *prickles* under the stipules, straight. *Stipules* very narrow, spreading at the top. *Petioles* somewhat prickly, very slender; leaflets 5-9, very small, shining, roundish ovate, pointed, quite free from pubescence, finely serrated. *Flowers* solitary, with a narrow pointed bractea, very double, pale red. *Calyx* covered all over with very close set, straight prickles; *tube* round; *sepals* very short, dilated, pointed, downy at the edge, (like those of *R. bracteata* in shape).

J. L.







S. Watson

Plotted by J. S. Watson

M. Thoms del.

January Oct 1 1825

# ONCIDIUM pumilum.

*Mr. Herbert's Dwarf Oncidium.*

## GYNANDRIA MONANDRIA.

Nat. ord. ORCHIDÆE. Div. Epidendræe.

ONCIDIUM. Suprà fol. 727.

Div. 1. *Perianthii foliola omnia discreta.* Lindl. Coll. bot. xxvii.

- O. *pumilum*; foliis rigidis ovalibus obliquis, paniculâ erectâ thyrsoidæâ foliorum longitudine, laciniis perianthii obovatis: superioribus maculatis, labello trilobo cristato: lobis æqualibus ovatis, alis columnæ integerrimis.

Herba parasitica, *pumila, sempervirens, bulbis nullis.* Folia *disticha, patentia, ovalia, rigida, avenia, sæpius apice et basi ob torsionem obliqua.* Scapus *terminalis, erectus, paniculatus, thyrsoidæus, brachiatus.* Flores *luteo-brunnei, parvi.* Perianthium *patens, 5-partitum, laciniis obovatis, subundulatis, apice incurvis: superioribus fusco maculatis, inferioribus immaculatis.* Labellum *luteum, planum, subrotundum, trilobum: lobis ovatis, obtusis, subæqualibus: intermedio paulò minore, disco callis duobus longitudinalibus sinibus loborum oppositis cristato.* Columna *alis parvis, integerrimis, rotundatis.* Anthera *rostrata.*

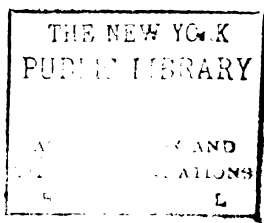
This pretty new species of *Oncidium* was communicated to us by the Honourable and Rev. Wm. Herbert, from his collection at Spofforth. It was found by one of his collectors upon the trunk of a *Bombax Ceiba*, between Rio Janeiro and Boto Fogo. It flowers in June, and grows readily in a stove, in a mixture of dead wood and moss, as indeed does the whole genus, which is, perhaps, the most easily cultivated of all the tribes of *Orchideæ*.

It has been contended by some recent Botanists, that the modern principles upon which Orchideous plants are divided into genera are inadmissible; and we believe that their judgment is influenced, in a great degree, by per-

ceiving, that a large number of recently formed genera consist of one or two species only. But to such objections, it appears to us that the genus *Oncidium* itself is a sufficient reply. It consists of a considerable number of species, we believe 23, to which there can be no doubt that many more will be added ; the species have decidedly-marked combining characters in their habit, as well as in the structure of their floral organs, and their union in one genus is in no instance affected by modern principles of analysis, the application of which to some other genera, even of Swartz himself, has sometimes shaken his combinations into almost as many genera as species. But if the mode of limiting genera to which we allude were unsatisfactory, and tended only to disunion, it would scarcely admit so large an assemblage of individuals as *Oncidium* presents, in a state of combination, nor would the newly-discovered species of *Orchideæ* be continually reinforcing the identical genera, which are pronounced unnecessary, upon the ground of their thinness of species.

A dwarf, evergreen, parasitical *herb*, without bulbs. *Leaves* distichous, spreading, oval, rigid, veinless, generally having an oblique direction, on account of a twist at their two ends. *Scape* terminal, erect, paniced, thyrsoïd, brachiate. *Flowers* yellowish-brown, small. *Perianthium* spreading, 5-parted, with obovate segments, which are a little wavy and incurved at the end : the 3 upper mottled with brown, the lower not mottled. *Lip* yellow, flat, roundish, 3-lobed ; with ovate, blunt, nearly equal lobes ; the middle one being rather smaller than the others, and having on its disk two longitudinal protuberances opposite the recesses of the lobes. *Column* with small entire rounded wings. *Anther* beaked.

J. L.





## TESTUDINARIA elephantipes.

*Hottentot's Bread.*

DIÆCIA HEXANDRIA.

Nat. ord. DIOSCOREÆ.

*TESTUDINARIA* Salisb.—Perianthium 6-partitum, patens: laciniis linearibus subæqualibus. ♂. Stamina 6, basi laciniarum inserta. ♀. Styli 3-coaliti. Capsula membranacea. Semina alata.—Herbæ ramis annuis volubilibus, caudice maximo rimoso. Flores masculi racemosi multiflori, fæminei subsolitarii.

*T. elephantipes*; foliis reniformibus planis apiculatis utrinque concoloribus. *Tamus elephantipes*. Ait. Kew. ed. 1<sup>a</sup>.—ed. 2<sup>a</sup>. 5.386. Willd. sp. pl. 4.772. Bot. Mag. 1347, ♀. Pers. syn. 2.618. Link. enum. 2.426.

*Testudinaria elephantipes*. Burchell's travels, 2.147.

*Omni parte glaberrima*. Caudex maximus, subrotundus, suberosus, cortice undique altè rimosâ. Rami volubiles graciles. Folia alterna, petiolata, cordata, reniformia, acuminata, apiculata, 7-nervia, avenia, utrinque pallidè virentia, lucida. Flores dioici, odore debili, ingrato, primum albidii, post anthesin lutescentes. ♂. Racemi erecti, nunc axillares, nunc, ad nodos, oppositifolii, multiflori, internodiis longiores, minutissimè puberuli. Pedicelli basi et apice bracteati, bracteis ovatis minutis persistentibus. Perianthium erectum, campanulatum, carnosum, limbo sexpartito reflexo: laciniis exterioribus linearibus acutis, interioribus lineari-spatulatis retusis. Stamina 6, ad basin laciniarum inserta; filamentis a latâ basi subulatis; antheris anticis, subrotundis, bilocularibus, adnatis; loculis septo incompleto longitudinaliter divis. Pollen parvum oblongum. Rudimentum styli trilobum.

This very remarkable plant was first introduced by the late Mr. Masson, who found it growing wild at the Cape of Good Hope. The plants which he sent to Kew having been males, the genus could not be ascertained satisfactorily; but from the resemblance of the male flowers to those of *Tamus*, it was referred to that genus till the females should be discovered. Afterwards when that sex was produced upon a plant which flowered at Mr. Joseph Knight's Nursery, the structure of the ovarium was considered to be the same as that of *Tamus*, and accordingly we find the female figured in the Botanical

Magazine without remark to the contrary. But Mr. Burchell having discovered it in abundance near Graaffrennet bearing fruit, which he describes as a membranous capsule, a new genus has been constituted, and named in allusion to the resemblance the caudex bears to a tortoise. To this genus, which is more nearly related to *Dioscorea* than to *Tamus*, a second species has been added by Mr. Burchell, with the following name and character :—

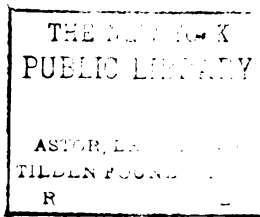
*Testudinaria montana*; foliis cordatis semicollapsis latioribus, quàm longis obsoletè nervosis subtùs glaucis.

A hardy greenhouse plant, pushing out its annual twining stems to the length of 8 or 10 feet, and flowering from July to November. The old stems, which are occasionally brought from the Cape, and in the grotesque figure of which the principal interest about the plant consists, are easily cultivated in any common greenhouse; but no means of artificially propagating it has yet been discovered. Mr. Burchell speaks of it in the following manner :—

“ These mountains are the native soil of an extraordinary plant called *Hottentot's Brood* (*Hottentot's Bread*). Its bulb stands entirely above ground, and grows to an enormous size, frequently 3 feet in height and diameter. It is closely studded with angular ligneous protuberances, which give it some resemblance to the shell of a tortoise. The inside is a fleshy substance, which may be compared to a turnip, both in consistence and colour. From the top of this bulb arise several annual stems, the branches of which have a disposition to twine round any shrub within reach. The Hottentots informed me, that in former times they ate this inner substance, which is considered not unwholesome when cut in pieces and baked in the embers. It will easily be believed, that this food may not be very unlike the yam of the East Indies, since the plant belongs, if not to the same, at least to a very closely allied genus, as the membranaceous capsules, with which it was at this time covered, clearly proved.”

J. L.







# AQUILEGIA atro-purpurea.

## Purple-flowered Columbine.

### POLYANDRIA PENTAGYNIA.

Nat. ord. RANUNCULACEÆ. Trib. IV. Helleboræ.

**AQUILEGIA L.**—Calyx 5-sepalus deciduus colorato-petaloides. Petala 5, supernè hiantia bilabiata, labio exteriore magno plano, interiore minimo, deorsum producta in calcaria totidem cava apice callosa inter sepala exserta. Stamina plurima in phalanges 5-10 disposita, interiora abortiva, antheris nullis, filamentis dilatatis membranaceis oblongis. Ovaria 5. Capsule totidem erectæ, polyspermæ stylis acuminatæ.—Herbæ perennes erectæ; radices fibrosæ; folia radicalia aut inferiora longè petiolata, petiolo trifido biternatim secto, segmentis trifidis dentatis sæpiùs obtusis; superiora in lobos lineares partita aut secta; flores terminales cœrulei, ulbi, rosei aut purpurei, rarissimè sordide flavescentes. Decand. regn. vig. syst. 1.333.

A. atro-purpurea; calcaribus rectis limbo æqualibus, stylis staminibusque sepala subæquantibus, sepalis longitudine petalorum. Dec. l. c. 1.339. prodr. 1. 51.

A. viridiflora;  $\beta$ , nectariis cœrulescentibus. Willd. sp. pl. 2.1247.

A. atro-purpurea; nectariis rectis, apice incrassato subinflexis, petalis longitudine nectarii, stylis staminibusque corollam æquantibus. Willd. enum. 1.577. Link. enum. 2.85.

$\beta$ . Dahurica; stylis exsertis.

A. Daourica. Dec. syst. 1.338. Delessert's Icones Selectæ, 1, t. 49.

A. atro-purpurea;  $\beta$ , Dahurica, et  $\gamma$ , Fischeriana. Decand. prodr. 1. 51.

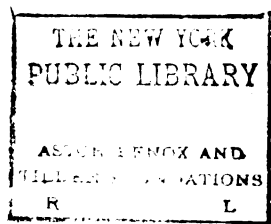
Herba perennis, 1-1½ pedalis. Folia erecta, longè petiolata, scapo paulò breviora, petiolo bis trifido, foliolis cuneatis trilobis 2-3-dentatis, suprà glabris, subtùs pilosiusculis. Scapus erectus, foliosus, simplex v. 2-3-partitus. Flores campanulati, nutantes, fusco-purpurei. Sepala oblonga, obtusa, subvirescentia, petalorum truncatorum longitudine. Calcaria recta, apice incrassata subinflexa, petalis paulò breviora. Styli exserti.

A pretty, little, neat, hardy herbaceous plant, native of Siberia. It flowers in the open border, in any common light soil, from April till June. Our drawing was made in the garden of the Horticultural Society at Chiswick, where it had been raised from Siberian seeds communicated by Dr. Fischer.

This species was taken up by M. De Candolle, in the first volume of his *Systema*, without having seen specimens, upon the authority of Willdenow, who had first, in his *Species Plantarum*, distinguished it as a particular variety of *A. viridiflora*, and afterwards in his *Enumeration* of the plants in the Berlin garden, raised it to the rank of a species. M. De Candolle at the same time described from Patrin's Herbarium, a plant collected in Dahuria, which he called *A. Daourica*, under which appellation we find it subsequently figured in Baron Delessert's valuable illustrations of M. De Candolle's work. But it appears, that before the preparation of the materials for his *Prodromus*, the learned Professor discovered the specific identity of his *A. Daourica*, and Willdenow's *A. atro-purpurea*. In the last-mentioned work, we therefore find the former arranged as a variety of the latter, and distinguished by its exserted styles; and an addition of a third variety, communicated by Dr. Fischer as *A. atro-purpurea*. The difference between these two last supposed varieties of *A. atropurpurea* is stated to depend upon the leaves of  $\beta$  (*A. daourica*) being smooth, while those of Dr. Fischer's plant are villous beneath. But among the various individuals which we examined at the time our drawing was made, we observed the lower side of the leaves to vary much in degree of pubescence, from being almost villous to being quite smooth. We have, therefore, ventured to unite the varieties  $\beta$  and  $\gamma$  into one. We also remarked so much variation in the length of the styles, that we cannot help entertaining doubts of the separation even of  $\beta$  from  $\alpha$ .

A perennial herbaceous plant, 1 foot to 1½ foot high. *Leaves* erect, on long stalks, a little shorter than the scape; petiole twice trifid, the leaflets cuneate, 3-lobed, and 2 or 3-toothed, smooth above, and more or less hairy beneath. *Scape* erect, leafy, simple, or with 2 or 3 divisions. *Flowers* campanulate, nodding, brownish-purple. *Sepals* oblong, blunt, greenish, as long as the truncated petals. *Spurs* straight, thickened at the end, and a little bent inwards, somewhat shorter than petals. *Styles* exserted.

J. L.





H. Pursh del

Collected by J. G. S. Gray 1825, June 11 1825

J. H. S. Gray

## CACALIA salicina.

*Willow-leaved Cacalia.*

## SYNGENESIA ÆQUALIS.

Nat. ord. COMPOSITÆ. Juss. Sect. Senecioneæ Cassini.

CACALIA L.—Involucrum profundè multipartitum, calyculatum; laciniis æqualibus. Receptaculum nudum. Flosculi omnes tubulosi, hermaphroditi. Anthere basi nude. Pappus pilosus sessilis.—Arbores, frutices, vel herbæ, polymorpha, alternifolia. Flores terminales, solitarii, corymbosi vel paniculati, flavi, lutei, aurantiaci, purpurei, rosei, albi, vel virescentes. Kunth. synops. 2.443.

*C. salicina*; fruticosa, foliis oblongo-lanceolatis connatis subtus tomentosis, racemis axillaribus. Labill. nov. holl. 2. p. 37. tab. 179. Pers. syn. 2.396.

Frutex ramis crassis, cinereis, tomentosis, vestigiis foliorum deciduorum cicatrizatus. Folia sparsa, versùs apicem ramorum congesta, petiolata, lanceolata, convexa, margine denticulata, supernè rugosa, viridia, glabra, subtus incana, reticulata. Capituli sessiles, axillares, glomerati, non multum petiolo longiores, bracteis paucis, linearibus, obtusis, tomentosis interstinctis. Involucrum campanulatum, polyphyllum, imbricatum, basi bracteolis 2-3 subulatis: foliolis æqualibus, distinctis, margine scariosis, dorso et apice lanatis. Flosculi lutei, omnes hermaphroditi, infundibulares, erecti, limbo 5-lobo, patente, tubo paulò brevior. Anthere basi muticæ, filamentis glabris. Ovaria teretia, glabra, mutuo compressione angulata, basi æqualia, apice dilatata. Pappus longus, sessilis, apice pilosus, basi asper, serie simplici insertus. Stylus glaber, basi bulbosus, disco epigyno parvo. Stigma bilobum, lobis linearibus arcuatis, obtusis, medio sulcatis dorso minutissimè papilloso, versùs apicem hispido. Receptaculum favosum, paleolis inæqualibus subulatis, nunc, sed raro, in paleam filiformem involucri longitudine elongatis.

That this plant, and we suppose also *C. linearis*, is of quite a distinct genus from *Cacalia*, we apprehend there can be little doubt. From *Cacalia*, as constituted by Linnæus, or left by Willdenow, or limited by M. Cassini, it is distinguished by its imbricated downy involucrum, with a few linear bracteæ at the base, by its axillary inflorescence, by its receptacle, the fine ragged paleæ of

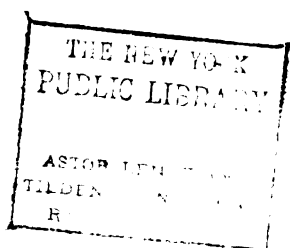
which are sometimes elongated into subulate processes as long as the involucre, and by its whole habit. It is equally distinguishable from *Adenostyles* and *Emilia*. We do not, however, wish to interfere with the arrangement of the New Holland Compositæ, by Mr. Brown, the result of whose valuable labours upon the subject will, we trust, be soon before the public.

Raised from New Holland seeds presented to Mr. Colvill by Edward Barnard, Esq. It is a hardy greenhouse plant, requiring no particular treatment, and flowering in August.

A *shrub*, with thick, ash-coloured, downy branches, scarred with the remains of the fallen leaves. *Leaves* scattered, clustered towards the end of the branches, stalked, lanceolate, convex, toothed at the edge, on the upper side rugose, green and smooth, on the under side hoary and netted. *Heads* sessile, axillary, clustered, not much longer than the leafstalks, with a few linear, blunt, downy bractæ between. *Involucre* campanulate, many-leaved, imbricated, with 2-3 subulate bractæ at the base; *leaflets* equal, distinct, scarious at the edge, woolly at the back and ends. *Flosculi* yellow, all hermaphrodite, funnel-shaped, erect, with a 5-lobed spreading limb, a little shorter than the tube. *Anthers* without awns at the base, with smooth filaments. *Ovaria* round, smooth, angular by mutual compression, equal at base, a little dilated at end. *Pappus* long, sessile, hairy at end, rough at base, inserted in a single row. *Style* smooth, bulbous at base, with a small epigynous disk. *Stigma* 2-lobed, with linear recurved lobes, which are blunt, furrowed down the middle, slightly papillose at the back, hispid towards the ends. *Receptacle* favose, with little unequal subulate paleæ, sometimes lengthened into a filiform palea as long as the involucre.

J. L.







*M. Hort. del.*

*Pub. by J. Pasquay 109 Piccadilly. C. H. 1825*

*J. Watts sculp.*

## BLANDFORDIA grandiflora.

### *Large-flowered Blandfordia.*

#### HEXANDRIA MONOGYNIA.

Nat. ord. HEMEROCALLIDÆ. Br. prodr. 1.296.  
BLANDFORDIA. Suprà vol. 4. fol. 286.

*B. grandiflora*; bracteis pedunculum floriferum subæquantibus: interiore minore, foliis serratis.

*B. grandiflora.* Brown prodr. 1.296.

Aletris punicea. Lab. nov. holl. 1. p. 85. t. 111?

Folia rigida, erecta, lætè-viridia, utrinque striata, margine serrata. Scapus erectus, 2-3-pedalis, compressus, striatus, squamis rigidis acuminatis distantibus vestitus. Racemus cylindricus, multiflorus, floribus solitariis, pendulis, bracteatis: bracteis duabus pedunculi floriferi longitudine: exteriore ovata acuminata interiore ad minimum duplè minore. Post anthesius pedunculi multum elongantur. Perianthium magnum, inflatum, rubro-aurantiacum, diu persistens, limbo 6-lobo: laciniis exterioribus ovatis obtusis; interioribus latioribus retusis.

At folio 286 of this work, will be found a representation of the original *Blandfordia*, upon which the genus was instituted by Sir James Edward Smith. The species now before us is distinguished from that by the greater size of its flowers, by the colour of its leaves, which are bright yellowish-green, not glaucous, and distinctly serrated towards the extremity, while those of *B. nobilis* never acquire, even in old dried specimens, any division of their margin, beyond a slight and minute cracking. In this species the bractæ are, during flowering, as long as the pedicels, but in *B. nobilis* they are at all periods much shorter.

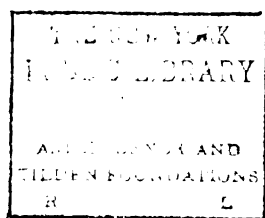
The last-mentioned distinction is that upon which Mr. Brown founds his specific character of *B. grandiflora*; a circumstance which excites some doubts in our mind as

to the plant now figured being the same which that gentleman had before him. The difference in the margins of the leaves of this plant and of *B. nobilis* is so remarkable, that we are persuaded it could not have escaped the notice of so acute an observer as Mr. Brown unless the specimens examined by him, at the time of the publication of the *Prodromus*, were in an imperfect state. It is also worthy of attention, with reference to any question of the identity of this *B. grandiflora* and that of Mr. Brown, that the *Aletris punicea* of Labillardière, found at Van Dieman's Island, and figured in his 111th plate, the leaves of which are described as minutely crenulated, is quoted with doubt as a synonym of Mr. Brown's *B. grandiflora*. Labillardière's plant, indeed, if dependence can be placed upon the fidelity of either the figure or description given by its author, may be distinct from any described *Blandfordia*, the divisions of its perianthium being all ovate and acute, not alternately retuse and imbricated as in the species before us.

Our drawing of this superb liliaceous plant was made at Mr. Colvill's Nursery, in August. The plant was growing in the open border of a new conservatory, where it flowered in great beauty and profusion. We are informed that it had been raised from seeds collected in some part of New Holland by Mr. John Richardson ; but Mr. Sweet tells us that he cultivated it several years ago, at Stockwell.

A hardy, greenhouse, herbaceous plant, with numerous, rigid, pale-green, ensiform leaves, striated on each side, and serrated at the edge. *Scape* growing to the height of two or three feet, compressed, striated, and clothed with a few distant rigid taper-pointed scales. *Raceme* cylindrical, many-flowered, with solitary, large, pendulous, inflated flowers, having at their base two opposite ovate acuminate bracts, as long as the peduncle of the flower, the inner bract being, at least, twice as small as the other. After the flowering is completed, the peduncles become much elongated. The *perianthium* is orange-red, very showy, and remains in perfection for a long time ; its limb is 6-lobed, the outer segments being ovate and obtuse, the inner broader and retuse.

J. L.





*Stem by J. H. S.*

*Flower by J. H. S. Oct. 7/1825.*

*J. H. S.*

## CASTILLEJA septentrionalis.

*Labrador. Castilleja.*

## DIDYNAMIA ANGIOSPERMIA.

Nat. ord. SCROPHULARINEÆ.

**CASTILLEJA** L.—*Calyx* tubulosus compressus hinc fissus. *Corolla* tubulosa compressa bilabiata; labio superiore lineari canaliculato; inferiore brevissimo dentato. *Stamina* 4 didynama. *Stigma* capitatum. *Capsula* ovata compressa. *Semina* membrana reticulata laxa oblecta.—*Herbæ*, suffrutices, aut frutices. *Folia alterna integra aut trifida*; floralia dissimilia, bracteiformia colorata. *Flores axillares solitarii aut terminales spicati*. *Corollæ albide aut virescentes*. Kunth synops. 2.99.

*C. septentrionalis*; annua, foliis caulinis lineari-lanceolatis: superioribus ovato-lanceolatis trinerviis cauleque striato glabris, spica paniculata, calyce bilabiato ( $\frac{2}{3}$ ) corollâ brevior.

*Bartsia pallida*, Mich. fl. am. sept. 2. p. 17. Pursh. fl. am. sept. 2.429. Nutt. genera 2.56. et auctorum omnium de Am. sept.

Herba annua, caule simplici suberecto striato glabro versùs apicem pilosiusculo. Folia radicalia vix ulla, caulina lanceolata glabra: superioribus latioribus trinerviis. Spica paniculata, bracteis pallidis purpuratis, imbricatis, oblongis, apice rotundatis 3-5 dentatis. Flores in axillis bractearum solitarii, sessiles, pallide virides. Calyx compressus, tubulosus bilabiatus pilosus, labio superiore bifido, inferiore 3-partito. Corolla tubulosa tomentosa, labio superiore lineari erecto integro canaliculato, inferiore brevissimo tridentato glandulis nullis, sed fauce carnosâ in loco glandularum. Antheræ glabræ.

A single individual of this exceedingly rare and very curious plant, sprang up from among some turfs imported from Labrador by the Horticultural Society, in whose garden at Chiswick our drawing was made, in July 1824. It perished soon afterwards, having shed its seed; but no traces of the plant have been discovered this season. It probably is scarcely capable of cultivation, except, as in the present instance, under accidental circumstances.

Although there appear to be no traces of glands in the mouth of the lip of this species, their place being supplied by a thickening of the orifice, we nevertheless concur



with Mr. Kunth in the propriety of removing it from *Bartsia* to *Castilleja*, notwithstanding the difference in the calyx of *C. integri-folia* and *C. fissa*, and of the plant before us. At least it can never be admitted into any genus of which *Bartsia Alpina* and *viscosa* form a part. It is curious that Mr. Nuttall, who divides *Bartsia coccinea* from *Bartsia*, for the purpose of making it into a particular genus which he calls *Euchroma*, should not have discovered that *B. pallida* was separable on the same grounds as the first species. *Euchroma*, however, can scarcely be divided from *Castilleja*.

Upon comparing the plant which grew in the Horticultural Society's garden, with wild specimens from Hudson's Bay and Labrador, in the Banksium Herbarium, we find that there is no difference whatever between them even in size. Not so, however, with the *B. pallida* of Siberia. Of this we possess fine specimens gathered in the Ural Mountains by one of Dr. Fischer's collectors; and we find it is quite distinct from the American plant. The principal part of the foliage is radical and extremely narrow, the whole plant is covered with dense tomentum, the spikes are in all cases unbranched, and the calyx is, especially upon the nerves, quite villous. In *Castilleja septentrionalis* scarcely any of the foliage is radical; the leaves are much broader, especially the upper ones, and there is scarcely any down upon the plant excepting a few weak hairs upon the upper part of the stem, the bractææ, and calyx.

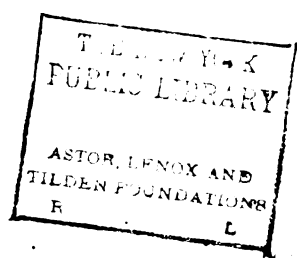
The *Bartsia pallida* of Siberia may therefore be thus characterised, and named:

*Castilleja sibirica*; annua? foliis radicalibus linearibus acuminatis: superioribus ovato-lanceolatis trinerviis cauleque tomentosis, spica simplice, calyce villosa bilabiato ( $\frac{2}{3}$ ) corolla brevior.

*Bartsia* foliis lanceolatis indivisis, floralibus incisiss. *Gmel. sib.* 3. p. 201. t. 42. *B. pallida.* *L. sp. pl.* 839. *Willd. sp. pl.* 3. 186.

*C. septentrionalis* is an annual plant, with a simple striated, smooth, nearly erect stem, a little hairy towards the end. Radical leaves scarcely any, cauline lanceolate smooth: the upper broader, 3-nerved. Spike paniced, with pale bractææ, tinged with purple, imbricated, oblong, rounded, and 3 or 5-toothed at the end. Flowers solitary in the axilla of the bracts, sessile, pale green. Calyx compressed, tubular, two lipped, hairy; the upper lip bifid, lower 3-parted. Corolla tubular, compressed, downy; the upper lip linear, erect, entire, channelled; the lower very short, 3-toothed, without glands. J. L.





920.



Dr. W. H. H. H. H.

Dr. W. H. H. H. H.

Dr. W. H. H. H. H.

## DISA grandiflora.

*Large-flowered Disa.*

## GYNANDRIA MONANDRIA.

Nat. ord. ORCHIDÆE. Sect. 1. *Orchideæ veræ.*

DISA L. — *Perianthium* explanatum; laciniis exterioribus liberis: posticâ galeatâ 1-calcaratâ; interioribus nanis basi columnæ accretis. *Label-lum* basi columnæ insertum liberum integrum. *Columna* utrinque alata: alis petaloideis. *Clinandrium* dilatatum anticè suprâ stigma prominens trilobum: lobo intermedio inflexo. *Anthera* verticalis, loculis basi divaricatis solutis in clinandrio incumben-tibus. *Glandulæ* nudæ. *Stigma* ad basin columnæ.—Obs. *Disa* cornuta quæ clinandrio non dilatato et præsertim *anthera* horizontali differt, fortè genus proprium *Pterygodio* affine (REPANDRAM) indicat, cui species multæ aliæ spicatæ referendæ sunt.

*D. grandiflora*; laciniis perianthii exterioribus maximis ovali-lanceolatis acuminatis, calcare conico nutante; caule subbifloro.

*Disa* uniflora. Berg. cap. 348. t. 4. f. 7.

*Disa* grandiflora. Linn. suppl. 406. Swartz. act. holm. 1800. p. 210. Willd. sp. pl. 4.45. Pers. syn. 2. 507. Ker in Journ. sc. vol. 4. p. 205. tab. 5. f. 1.

*Satyrium* grandiflorum. Thunb. prodr. 4.

Caulis glaber, pedalis, foliosus, erectus. Folia lanceolata, acuminata, patentia, basi vaginantia, caulis longitudine, superiora sensim minora. Flores terminales, 1-3, maximi, speciosi. Bracteæ ovato-lanceolata, acuminata, nervosæ, ovarii longitudine. *Perianthium* explanatum, patens, laciniis exterioribus maximis, ovali-lanceolatis, acuminatis, lateralibus coccineis planis, superiore (galeâ) rubescente, venosâ, cucullatâ, suprâ basin calcare brevi obtuso vix ipsâ galeâ longiore; interioribus minimis ovatis ad basin columnæ. *Label-lum* anticum, lineare, acuminatum, laciniis exterioribus brevius. *Columna* erecta utrinque appendiculata: appendicibus ovalibus dimidiatis erectis cum *antherâ* parallelis, margine laterali replicato, dentato, et cum dorso columnæ basi adnato; *clinandrium* magnum dilatatum, anticè declive, carnosum, suprâ stigma prominens, trilobum: lobo mediâ inflexo. *Anthera* terminalis, erecta, apiculata, in parte posteriore *clinandrii* inserta, connectivo carnosio rigido, loculis parallelis, basi divaricatis, solutis, in lobis lateralibus *clinandrii* incumben-tibus. *Pollinia* gracilia, granulosa, sulcata: glandulis nudis. *Stigma* carnosum, concavum, ad basin columnæ. Obs. In æstivatione *columna* arcuatur et *clinandrii* complicati lobi laterales tali modo suprâ stigma invertuntur, ut *glandulæ* polliniorum faciem stigmatis viscosam tangunt.

For this truly splendid plant, which has now flowered, probably, for the first time in Europe, we are indebted to

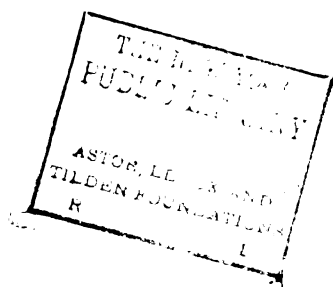
Wm. Griffin, Esq., of South Lambeth, by whom it was received from the Cape of Good Hope. Our drawing was made in his hot-house, in June last.

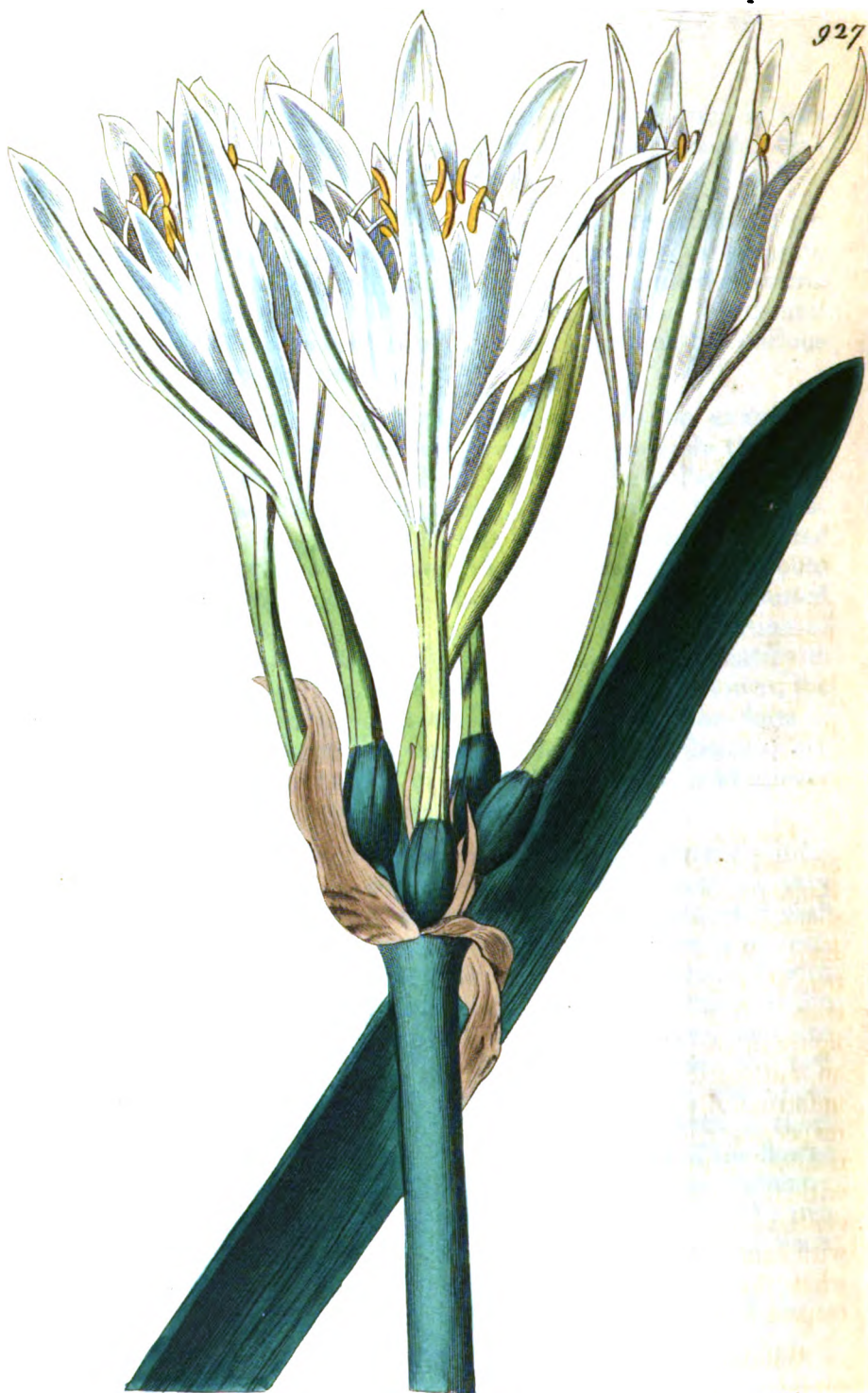
It must be considered the type of the genus *Disa*, from which we believe it will be found necessary to separate *D. cornuta*, and several other species with spiked flowers, on account of their simple clinandrium and horizontal anthers, in the nature of which they approach the curious form of *Pterygodium*.

If the column and stigma of this genus be examined when the flower is expanded, it seems impossible that any communication can take place between the pollen and the stigma, on account of the fleshy dilatation of the clinandrium which is interposed. But if the flower is dissected in an early state, it will then be found that the two lobes of this dilated process are folded together, and inverted over the stigma in such a manner, by the contraction of the column, that the glands are applied immediately to the stigmatic surface. At this stage also of the flower, the grains of pollen, which eventually cohere in the form of an indefinite number of waxy, wedge-shaped bodies, are all separable by the aid of a little nitric acid, and appear to be in their greatest state of perfection.

A bulbous-rooted orchideous plant, of extremely difficult cultivation. It will probably succeed best in very fine sandy peat, never allowed to become saturated with moisture, and, during the period when the plant is at rest, kept quite dry. The *stem* is a foot high, clothed with spreading, lanceolate, acuminate leaves, sheathing at the base. The *flowers* grow two or three together, and are very large and showy; of the outer segments the two lower are oval-lanceolate, and bright crimson, the upper of a delicate pink colour, and furnished with a short conical spur behind. The two inner segments of the flower are very small, and placed at the base of the column; while their place in the flower seems to be supplied by two petal-like appendages adhering to the column on each side. The *labellum* is small, and linear-lanceolate.

J. L.





*St. Paul del. Duboy & Schlegel del. 1825. J. White m.*

# PANCRATIUM Carolinianum.

## Carolina Pancratium.

### HEXANDRIA MONOGYNIA.

Nat. ord. AMARYLLIDÆE.

PANCRATIUM. *Suprà* vol. 3. fol. 221.

*P. Carolinianum*; multiflorum; foliis non infernè vaginantibus, antheris supinato-incumbentibus. *Ker. in Journ. sc. cum icone.*

Lilio-Narcissus polyanthus, flore albo. *Catesby Carolina*, 3. p. 5. t. 5.

*Pancratium spatha* multiflora, foliis linearibus, staminibus nectarii longitudine. *Mill. Dict. ed. 7. n. 6.*

*Pancratium Carolinianum*. *Linn. sp. pl. ed. 2. 1.418. Walter, fl. Carol. 120. Hort. Kew. ed. 1. (not of Salisbury in Hort. Trans. 1.338.)*

*P. maritimum*. *Pursh. amer. sept. 1.222.*

For the greater part of the synonyms cited above, we are indebted to an excellent monograph upon the genus *Pancratium*, printed some years since in the Journal of Science and Arts, from the pen of John Bellenden Ker, Esq. We are assured that the plant now published is the true *P. Carolinianum* of Linnæus, and distinct from *maritimum*. It certainly appears to agree perfectly with the figure in the Banksian Library, which Mr. Ker considered an authentic representation of the species, but we are unfortunately unable to add any thing to the information respecting the differences in these two plants, beyond what is afforded by our figure. The specimens reached us in a withered state, and at a time when we had not leisure to contrast the two species, *P. maritimum* and *Carolinianum* with each other. It may not be useless, however, to state what the opinions of various Botanists have been with respect to *P. Carolinianum*.

Willdenow, Sprengel, Sir James Smith, and others, consider it the same as *P. maritimum*. Mr. Salisbury sup-

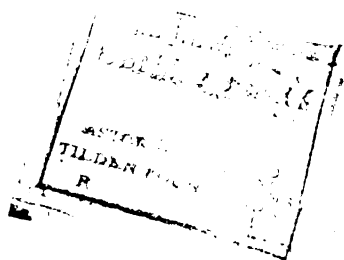
poses Catesby's figure of his "Lilio-Narcissus flore albo," to be a bad representation of the plant called *P. rotatum*, by Mr. Ker, in the Botanical Magazine, t. 827, and consequently is of opinion that that plant is the true *P. Carolinianum*. To this view of the question Mr. Herbert seems favourable.

For ourselves, if we may venture to offer an opinion, we should incline to the belief that this is the true *P. Carolinianum*, and that it is different from the *P. maritimum* of Europe, figured at fol. 161 of this work. Catesby's figure may be almost any thing.

Our drawing was made last Autumn, from a specimen communicated by the late Honourable and Rev. George Herbert, from his garden at Burghclere.

J. L.







*Acacia del*

*India by J. Doodson 12, 1925*

*21. 11. 25*

## ACACIA sulcata.

*Furrowed Needle-leaved Acacia..*

## POLYGAMIA MONÆCIA.

Nat. ord. LEGUMINOSÆ. Mimosaee.

ACACIA. Suprà vol. 2. fol. 98.

Div. I. *Foliis simplicibus.*

*A. sulcata*; foliis filiformibus undique sulcatis: mucronulo innocuo, capitulis subgeminis; bracteis basis pedunculi ovatis concavis persistentibus, leguminibus flexuosis. *Brown in Hort. Kew. 5.460.*

Rami glabri corrugati. Folia sæpiùs secunda, rigida. Pedunculi solitarii, foliis breviores. Capituli solitarii pisi minoris magnitudine, è quodque axillâ foliorum terminalium.

A very rare species of Acacia, described in the fifth volume of the Hortus Kewensis, by Mr. Brown. It is a native of the South-west Coast of New Holland, whence it is stated to have been introduced in 1803, by Mr. Peter Good, who was employed as gardener in Captain Flinders's voyage. Our drawing was made in a Conservatory, in Mr. Colvill's Nursery, in June 1824.

For full directions respecting the cultivation of the very ornamental tribe of plants to which this belongs, we beg leave to refer the reader to the last edition of the Botanist's Cultivator.

A small heath-like shrub, with smooth, yellowish-brown wrinkled branches, densely covered with filiform rigid leaves, furrowed deeply from base to point. Peduncles solitary, shorter than leaves, each having at its base an ovate concave bract. Heads the size of a small pea, in the cultivated plant usually solitary, and proceeding from every axilla at the end of the branches.

J. L.

We have recently had an opportunity of examining fresh flowers of this plant, which we, at the time we published it, had not seen in a perfect state. At that time, it was supposed that it might, at some future period, be found to constitute a genus distinct from any previously described, and the belief we then entertained is now confirmed. It differs from *Amaryllis* in having each of the stamens, which are opposite the outer divisions of the perianthium, furnished with two subulate processes, and from *Chlidanthus*, in having the stamens distinct, and inserted nearly at the base of the perianthium, and in the structure of this latter.

This genus may be called *Phycella*, and thus defined.

#### PHYCELLA.

*Perianthium* subringens, convoluto-clausum, 6-partitum. *Stamina* basi laciniarum inserta: *fertilia* 6, declinata, subæqualia; *sterilia* totidem subulata, basi filamentorum exteriorum adnata. *Stylus* filiformis. *Stigma* simplex. *Semina* ..... (membranacea?)

Sp. 1. *P. ignea*.

*Amaryllis ignea. Suprà vol. 10. fol. 809.*

Sp. 2<sup>a</sup>. *P. cyrtanthoides*.

*Amaryllis cyrtanthoides. Bot. Mag.*

J. L.

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## AMOMUM maximum.

*Tall Amomum.*

## MONANDRIA MONOGYNIA.

Nat. ord. SCITAMINEÆ.

• *AMOMUM* L.—*Perianthium* limbo interiore unilabiato. *Anthera* cristata; cristâ lobata v. integra. *Capsula* 3-locularis, 3-valvis. *Semina* plurima arillata. *Embryo* simplex albuminosus et vitellosus. *Rorb. fl. ind. ex. Anglica vers.* paulò mutatis terminis.

*A. maximum*; foliis petiolatis lanceolatis subtùs villosis, spicis ovalibus epigæis, bracteis lanceolatis, labello elliptico, cristâ antheræ integrâ lunulata, capsulis rotundis enneapteris. *Rorb. l. c.*

*Amomum maximum.* *Smith in Rees. in supplemento. Römer et Schultes sp. pl.* 1.571. *Sprengel systema vegetabilium*, 1.11.

*Radix* ..... Culmus erectus, glaber, vaginatus, basi bulbosus. Folia terminalia, 2-3, patentia, 1½ pedalia, angusto-lanceolata, atro-viridia, concolora, suprâ glabra, sublucida, subtùs tomentosa. Flores in capitulo radicali ovali, scapo brevi, squamoso. Bractæ lanceolatae, ferrugineæ, perianthio appressæ, exterioris longitudine. Perianthium exterius tubulosus, infrâ fissus, apice trilobus, sphacelatus, pallidè rubescens. Perianthium interius limbi exterioris laciniis 3, patentibus, subsecundis, oblongis, canaliculatis, obtusis, citrinis, sublobatis, membranaceis, in tubo brevi arcuato coadunatis; labello obovato, membranaceo, margine crispato crenato, subdiaphano, venoso, laciniis longiore, basi utrinque dentato. Anthera in labello incumbens, oblonga, apice reniformis, marginata: loculis approximatis, parallelis, in amplexu suo stylum foventibus. Ovarium ..... Stylus filiformis, glaber; basi corpusculis duobus puberulis. Stigma obliquum, capitatum, infundibulare, compressum, margine oris ciliato.

We were favoured with this plant, in flower, in June 1824, from the garden of his Grace the Duke of Northumberland, at Sion House, where it had been cultivated for several years. Its history had been lost.

The specimen was not in a healthy state, which may explain the cause of its not having arrived at the height which *Amomum maximum* attains in the East Indies. In the Malay Islands, of which it is a native, it reaches the stature of a tall man. It is proper to remark, that the plant now represented differs from Roxburgh's description, in not having the outer segments of the inner perianthium

vaulted on the labellum. But in *A. maximum*, Roxburgh does not seem to attach a high degree of importance to this circumstance; for he not only omits it in the specific character of that species, but inserts it in the definition of *A. dealbatum*, as if contrasting the permanence of the form in one species with the uncertainty of it in the other.

The seeds are said to possess a warm, pungent, aromatic taste, not unlike that of Cardamoms, but by no means so grateful.

Professor Sprengel, in his new edition of the *Systema Vegetabilium* has, in his translation of Roxburgh's specific character of this plant, mistaken the single lunar lobe of the filament, for three lunar lobes, answering to the pointed divisions of the filament, which are common in other species. He also calls the capsule 7-winged instead of 9-winged; but the latter is possibly an error of the press.

A tender stove plant, which may be cultivated in the same manner as others of its tribe. It is recommended by Mr. Sweet, in his *Hothouse and Greenhouse Manual*, "to be planted in rich, sandy soil, and to be grown in large pots, in a moist heat." Of this very useful book, we perceive that a second edition has been lately published, containing much new information, especially upon the treatment of those plants which are the most difficult to cultivate. We recommend this work to every lover of gardening.

*Stem* erect, smooth, covered by the persistent sheath of former leaves, bulbous at the base. *Leaves* terminal, 2-3, spreading,  $1\frac{1}{2}$  foot long, narrow-lanceolate, dark green, of the same colour in every part, smooth, and somewhat shining above, downy beneath. *Flowers* in a radical oval head, with a short, scaly scape. *Bractea* lanceolate, ferruginous, pressed close to the perianthium, and as long as the outer. *Outer perianthium* tubular, split on its lower side, 3-lobed at end, withering, pale pink. *Inner perianthium* with the segments of its outer limb 3, spreading, somewhat on one side, oblong, channelled, obtuse, lemon-coloured, membranous, united into a short bowed tube; *labellum* obovate, membranous, curled and crenate at edge, somewhat diaphanous, veiny, longer than segments, with a tooth on each side at the base. *Anther* incumbent on the labellum, oblong, reniform, and edged at the end. *Cells* close together, parallel, embracing the style by their union. *Style* filiform, smooth, with two downy corpuscles at its base. *Stigma* oblique, capitate, funnel-shaped, compressed, with the edge of the orifice ciliated. J. L.



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## RODRIGUEZIA secunda.

### *Side-flowered Rodriguezia.*

#### GYNANDRIA MONANDRIA.

Nat. ord. ORCHIDEÆ. Sect. *Epidendrea*.

**RODRIGUEZIA.** Fl. Peruv. Perianthium tetraphyllum ringens : foliolis superioribus erectis ; inferiore labello supposito. Labellum integrum anticum unguiculatum basi cornutum medio callosum : ungue columnâ parallelo. Columna teres apice barbata. Anthera unilocularis. Pollinia 2 posticè excavata filo elastico adhærentia. Gynizus lobatus.—Herbæ epiphytæ. (Americæ æquinoctialis.) Folia carnosa avenia disticha vaginantia. Spicæ axillares secundæ. Flores speciosi.

*R. secunda* ; foliis oblongo-lanceolatis apice obliquis emarginatis basi laxis vaginantibus.

*R. secunda.* Humboldt, Bonpl. et Kunth. nov. gen. et sp. pl. 1 p. 367. t. 92. synops. 1.348.

*R. lanceolata.* Bot. Cab. 676.

Pleurothallis? coccinea. Hooker, exot. flora, 129.

Planta epiphyta, acaulis. Folia disticha, basi vaginantia, decidua, patentia, ovali-lanceolata, complicata, enervia, apice obtusa, mucronulata, obliqua ; superiùs basi incrassato, compresso, ancipite, corrugato, bulboideo. Spicæ axillares, multiflori, cernui, pedunculati, foliorum longitudine ante expansionem tritici spicam referentes. Flores pulchrè rosei, secundi. Perianthium 4-partitum, ringens, laciniis superioribus ovalibus, conniventibus, inferiore cymbiformi, emarginato, labello supposito. Labellum liberum, unguiculatum ; ungue faciei columnæ applicito, marginato, basi extùs carnoso, cornuto ; laminâ cuneata, emarginata, obsoletè trinervi, medio carnosa, basi callosa, callo elevato marginato. Columna teres, clavata, pubescens, apice bidentata. Clinandrium nudum, retrorsum declive, anticè pulvinatum. Pollinia duo, albida, cereacea, posticè excavata, filo communi elastico glandulæ affixa. Anthera unilocularis, carnosa, anticè truncata. Gynizus subquadratus, apertus, utrinque cornutus, apice demùm emarginatus.

A beautiful parasitical orchideous plant, which was introduced about the year 1818, from Trinidad. It is more easily cultivated than the greater part of its tribe, growing freely, and flowering in abundance in a damp stove among rotten tan and decayed vegetable mould.

Whether this is the original species upon which the genus was founded by the authors of the *Flora Peruviana*, we dare not decide. There can be no doubt, however, that it is the same as the *R. secunda* of M. Kunth, and as that excellent Botanist considers his plant distinct from that of the *Flora Peruviana*, we have no hesitation in following him. It was found by Messrs. Humboldt and Bonpland in cool temperate places, in the neighbourhood of Carthagena, growing upon trunks of *Crescentia Cujete*, and flowering in October. It produces its beautiful spikes at the same time of the year in our stoves in great profusion. The labellum seems to be subject to some diversity of form and colouring in different individuals, but the differences are too inconstant to characterise even varieties. The spikes are usually nodding, as is elegantly represented in Dr. Hooker's *Exotic Flora*. Occasionally they are erect, as in the plant now figured, and as in that examined by M. Kunth.

The genus Gomeza of Mr. Brown is nearly allied to *Rodriguezia*, from which it is chiefly distinguished by its prominent stigma, by its 3-lobed labellum, and by the absence of any elongation from the base of the same part. The value of the latter character is, however, diminished by the consideration, that the slight elongation of the base of the labellum in *Rodriguezia* cannot properly be considered a spur, because it is solid, without any corresponding excavation between the labellum and columna.

The only other published genus with which it is necessary to compare *Rodriguezia* is *Pleurothallis*, which is essentially distinguished by the absence of an elastic filum bearing the pollen masses, by its axillary inflorescence, and by its solitary, or nearly solitary leaves, which neither sheath at the base, nor are seated on a bulbous base. It is necessary, however, to explain, that we consider the singular plant represented at fol. 759 of this work under the name of *Pleurothallis punctata*, and about the same time by Messrs. Loddiges, in their *Botanical Cabinet*, as a species of Gomeza (*G. tenuiflora*), to be essentially distinct from both those genera, from which it differs in several important particulars. Not to mention its radical inflorescence, which is a character of some value in distinguish-

ing many genera of Orchideæ, the labellum is not parallel with the columna in any portion of its length; the anther, instead of being terminal, as in nearly all the genera of true Epidendreæ, is placed at the back of the columna! exactly as in Neottieæ; there is a large projecting callus at the back of the point of the columna, to which we have seen nothing similar in this tribe of plants; and the columna is tapered off to a point, in which this plant again resembles Neottieæ; while the secreting stigmatic surface is not transverse with respect to the columna as in Epidendreæ, but perpendicular, and like a slit in the face of the columna, occupying half its length. This curious plant may be named

#### NOTYLIA.

*Perianthium* tetraphyllum explanatum: foliolis superioribus æqualibus distantibus; inferiore oblongo bilobo labello supposito. *Labellum* divaricatum integrum medio callosum. *Columna* libera teres acuminata. *Anthera* postica unilocularis cum stigmatè parallela. *Pollinia* duo integra filo elastico glandulæ affixa. *Clinandrium* planum apice callosum, posticè marginatum. *Stigma*: rima antica verticalis.—Herbæ epiphytæ (Americæ æquinoctialis). *Folia solitaria nervosa stipitata. Spicæ radicales.* OBS. Huic affinis est *Cymbidium dependens* Lodd.; planta nimirum structurâ in Orchideis inauditâ, et genus proprium (CIRRHÆAM Nob.) efformans.

Sp. 1. *Notylia punctata.*

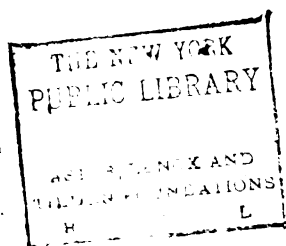
*Pleurothallis punctata. Suprà fol. 759.*

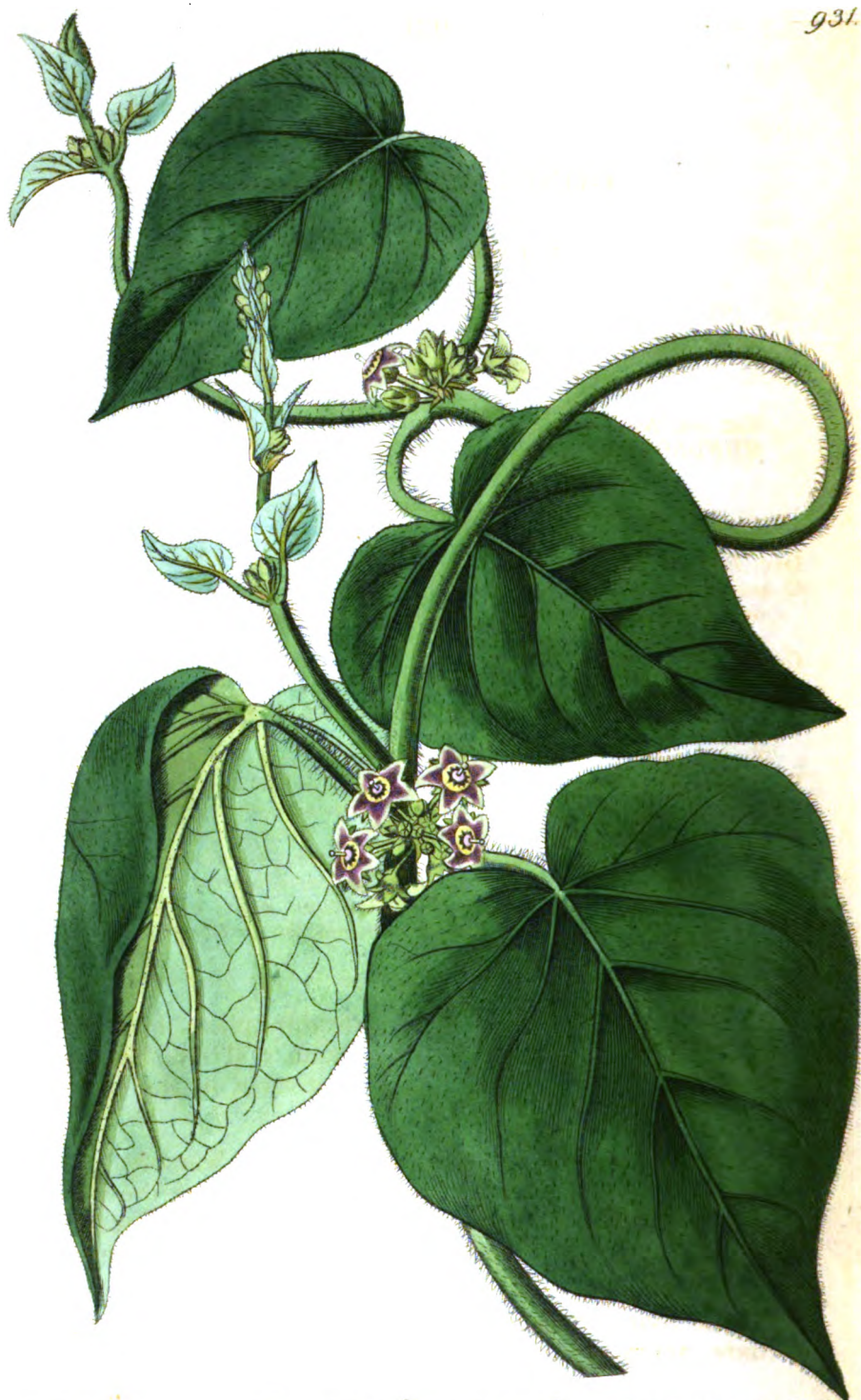
Sp. 2. *Notylia multiflora.*

*Pleurothallis sagittifera. Humb. Bonpl. et Kunth. nov. gen. et sp. pl. 1.365. t. 91.*

A stemless, parasitical plant. *Leaves* distichous, sheathing at the base, deciduous, spreading, oval-lanceolate, folded together, nerveless, blunt at the end, mucronulate, and oblique; the upper one thickened at the base, compressed, two-edged, wrinkled, bulb-like. *Spikes* axillary, many-flowered, cernuous, stalked, the length of the leaves before expansion resembling a wheat-ear. *Flowers* bright rose-coloured, one-sided. *Perianthium* 4-parted, ringent; the upper segments oval, conniving, the lower boat-shaped, emarginate, and placed under the labellum. *Labellum* unguiculate, separate; the *claw* applied to the face of the columna, edged, at the base outside fleshy and cornute; the *lamina* cuneate, emarginate, obsoletely 3-nerved, fleshy in the middle, and bearing an elevated margined callus at the base. *Columna* round, clavate, downy, 2-toothed at end. *Clinandrium* sloping backwards, naked, elevated like a cushion in front. *Pollen-masses* 2, whitish, waxen, hollowed out behind, fixed to the common elastic filum of the gland. *Anther* 1-celled, fleshy, truncate in front. *Gynizus* nearly square, open, with a little inflexed horn on each side, finally becoming emarginate at tip. J. L.







W. Pursh del

Paint by F. Redgrave 189. Recollected by Nov. 1825 J. Walter



## GONOLOBUS maritimus.

*Sea-shore Gonolobus.*

## PENTANDRIA MONOGYNIA.

Nat. ord. ASCLEPIADEE.

GONOLOBUS. *Suprà* vol. 3. fol. 252.DIV. *Floribus umbellatis; foliis pubescentibus.*G. *maritimus*; hirsutus, foliis cordatis acuminatis subtùs incano-tomentosis, umbellis sessilibus, laciniis corollæ ovatis acutis (obtusis) hirsutis. *Sprengel. syst. vegetab.* 1.846.Cynanchum maritimum. *Jacq. Amer. p.* 85. t. 56. *Linn. Mantissa*, 54. *Willd. sp.* 1.1255.Gonolobus maritimus. *Brown in Act. Wern.* 1. p. 35. *Römer & Schultes, sp. pl.* 6.59.

Frutex volubilis, hirsutus. Caules densè retrorsùm tomentosi, teretes. Folia tomentosa, cordata, acuminata, sinu aperto, petiolo longitudine lamina. Umbellæ sessiles, paucifloræ, interpetiolares, petiolo breviores. Calyx 5-fidus, pubescens, laciniis ovatis, obtusis, patentibus. Corolla rotata, 5-partita, pubescens, dorso et margine viridiores, disco purpureo; laciniis ovatis, obtusis. Corona cyathiformis, viridis, 15-dentata; dentibus 5 sinibus corollæ oppositis majoribus, inflexis, ciliatis. Pollinia didyma, medio affixa. Ovaria duo. Stylus unicus, exsertus, filiformis. Stigma obscure bilobum.

An inelegant, twining, hairy, shrubby plant, found by Jacquin among bushes on the sea-shore of Tierra Bomba. In this country it requires to be cultivated in the stove, when it flowers in June and July.

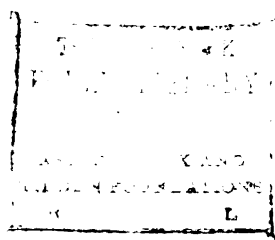
Our drawing was made in Mr. Colvill's Nursery, who received it from the Caraccas. Specimens from the Carribbee Islands, collected by De Ponthieu, and preserved in the Banksian Herbarium, perfectly agree with our cultivated plant.

*Stems* round, densely downy backwards. *Leaves* downy, cordate, acuminate, with the recess of the base open; the

petiole as long as the leaf itself. *Umbels* sessile, few-flowered between the petioles, and shorter than they are. *Calyx* 5-cleft, downy, with ovate, blunt, spreading segments. *Corolla* rotate, 5-parted, downy, green at the back and edge, purple in the middle; with ovate, blunt segments. *Crown* cup-shaped, green, with 15 teeth, of which the 5 opposite the recesses of the corolla are the largest, inflected, and ciliated. The *Pollen-masses* are twin, and attached by their middle. *Ovaries* two. *Style* single, exserted, filiform. *Stigma* obscurely 2-lobed.

The most recent enumeration of this genus comprehends 25 species, all of which are American, and 19 of them intratropical.

J. L.





## CALATHEA flavescens.

### Yellow Calathea.

#### MONANDRIA MONOGYNIA.

Nat. ord. CANNEÆ. Br.

**CALATHEA.** Meyer. *Perianthium* exterius 3-phyllum; interius limbo utroque tripartito: exterioris laciniis canaliculatis; interioris anticâ et unâ è lateralibus dilatatis petaloideis: alterâ laterali cucullatâ difformi. *Filamentum* simplex. *Stylus* rectus, apice abruptè reflexus. *Stigma* obliquum excavatum integrum v. lobatum. *Ovarium* triloculare 3-spermum.—In-florescentia capitata. Obs. Huc referenda Maranta Zebrina fol. 385. hujus operis, et procul dubio M. Allouya. MARANTA, limitibus propriis circumscripta, differt, stylo circinato, filamento bilobo: lobo fertili integro, sterili petaloideo sæpiùs deformi, inflorescentia paniculata, et floribus nudis, nec bracteis obvallatis.

*C. flavescens*; acaulis, foliis oblongis, acuminatis, penninerviis, petiolatis glaberrimis, concoloribus, subtùs glaucis, capitulo sessili, ovato, multifloro, laciniis limbi interioris obovatis, oppositis emarginatis.

Folia erecto-patentia, oblonga, acuta, argutè penninervia, plana, glaberrima, subtùs glauca, petiolis erectis, alatis, vaginantibus ad basin folii, geniculatis, teretibus. Capitulum sessile è basi foliorum inferiorum, flores 5-6 citrinos de die in die promens. Bractee acutæ, rigidissimæ, tubi perianthii longitudine. Perianthium exterius triphyllum; foliolis lineari-lanceolatis, acuminatis, convolutis, membranaceis. Tubus gracilis, clavatus, arcuatus, perianthio exteriore longior. Per. interioris limbus exterior 3-partitus: laciniis patentibus, lanceolatis, concavis; interior 3-phyllus: laciniis 2 magnis oppositis, patentibus, obovatis, emarginatis; alterâ parvâ, deformi, apice cucullata, hinc cornutâ, stylum et stigma involvente. Filamentum stylo connatum, lobo sterili ferè oblitterato integerrimo. Anthera unilocularis, marginalis, lobo sterili altior. Stylus teres, rectus, apice horizontaliter rostratus. Stigma concavum, marginatum, integrum. Ovarium triloculare, trispermum.

This beautiful plant was sent in 1822, by the late Mr. John Forbes, from Rio Janeiro, to the Horticultural Society. Our drawing was made in the Society's Garden in August 1824. The plant requires the heat of the stove, and the treatment applied to scitamineous plants.

The genus *Calathea* was founded by Dr. Meyer in his *Primitiæ Floræ Essequiboensis*, upon the *Maranta* Cassupo of Jacquin. It was probably described after an examination of dried specimens, which may account for the character given by the founder of it not being so complete as could have been desired. The original species has not fallen under our observation, but we presume that the genus was designed to comprehend all the plants previously referred to *Maranta*, which have not a circinate style and naked flowers. We have, therefore, reformed the generic character, from an attentive examination of the plant now before the reader, *M. Zebrina* of the Gardens, and a new species from Brazil, which we propose soon to publish in this work under the name of *Calathea violacea*. Sprengel refers *Maranta Cachibou* of Jacq., and *M. juncea* of Lamarck, neither of which we have seen, to the genus; but he retains in *Maranta* the *Allouya* of Jacquin, which surely is, as far as can be judged from Jacquin's figure and description, a genuine species of *Calathea*.

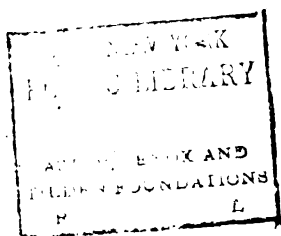
Canneæ have been separated by Mr. Brown, as a distinct order from Scitamineæ, on account of the single cell of their anthers, and the absence of vitellus from their seeds; and the separation is confirmed by nature, who has given to Canneæ none of the aromatic properties, so characteristic of true Scitamineæ. But there is another point of difference between these two orders, to which we believe that no allusion has hitherto been made, and which appears to us to be of at least as great importance as those by which this division has been already effected; inasmuch as it consists in a diversity of structure upon which the respective affinities of the two orders with Orchideæ will be found to depend. In true Scitamineæ, as has been observed by Mr. Brown, the stamen is always placed opposite to the labellum, or anterior division of the inner series of the perianthium, and proceeds from the base of the posterior outer division of the perianthium; while the sterile stamens, when they exist, are stationed right and left of the labellum. But what we find remarkable in Canneæ is, that the place of one of the sterile stamens of Scitamineæ is taken by their fertile stamen, which is therefore no longer opposite the labellum, but stands on one side of it. This peculiarity of

arrangement seems to indicate a higher degree of irregularity in Canneæ than in Scitamineæ, which also extends to the other parts of their flower. The suppression of parts takes place in the latter in a symmetrical manner; the two posterior divisions of the inner series of the perianthium, which are occasionally absent, corresponding with the abortion of the two anterior stamens. In Canneæ, on the contrary, the suppression of organs takes place with so much irregularity, that the relation is not always obvious, which the various parts bear to each other. The station of the fertile stamen in Scitamineæ, and the regularity of structure in their flowers, may therefore be considered an evidence of the more intimate relation of that order than of Canneæ with Orchideæ, and as a confirmation of the propriety of retaining Canneæ as a distinct natural order, and not a mere section of Scitamineæ, as it appears to be still considered by many of the most eminent continental Botanists.

J. L.









# WRIGHTIA tinctoria.

## *Dyer's Wrightia.*

### PENTANDRIA MONOGYNIA.

*Nat. ord.* APOCYNÆ.

**WRIGHTIA R. Br.** Corolla hypocrateriformis. Fauz coronata squamis 10 divisis. Stamina exserta. Filamenta fauce inserta. Antheræ sagittatæ, medio stigmati cohærentes. Ovaria duo cohærentia. Stylus filiformis apice dilatato. Stigma angustius. Squamæ 5-10, basi calycis extrâ corollam insertæ, nullæ hypogynæ. Folliculi distincti v. cohærentes, placentis adnatis. *Brown in act. Wern. 1. p. 73.*

**W. tinctoria** ; foliis elliptico-lanceolatis ovatisque acuminatis glabris, ramis corymbisque divaricatis, corollæ tubo calyce duplo longiore, folliculis distinctis. *Brown l. c. p. 75.*

**Nerium tinctorium.** *Roxb. hort. beng. 19.*

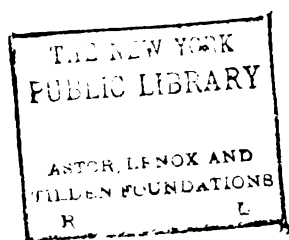
Caulis subvolubilis, frutescens. Folia opposita, subsessilia, ovato-lanceolata, acuminata, membranacea, utrinque glaberrima, suprâ viridia opaca, subtus pallidiora venis prominentibus reticulata. Cymæ axillares, pauciflori, trichotomi, glaberrimi. Pedicelli virides, teretes, graciles. Bractæe subulatæ. Sepala 5, ovata, transversè corrugata, gibbosa. Squamulæ inter calycem et corollam minimæ subulatæ. Corolla alba, glabra, hypocrateriformis, tubo laciniis duplo brevior. Limbus patens, 5-partitus, laciniis linearibus, suprâ pubescentibus, ad apicem incurvulis, ad basin appendicibus totidem fimbriatis per processus breviores filiformes connexis coronam formantibus. Tubus carnosus, intus mellifluus, basibus filamentorum gibbosis pubescentibus semiclausus. Stamina 5, laciniis alterna, ore inserta. Filamenta brevia, linearia, incurva. Antheræ subulatæ, acuminatæ, in cono conniventes, laciniis corollæ multo breviores, basi sagittatæ, dorso subpubescentes, apice ciliato stigmati fusiformi medio annulato adherente. Ovarium glabrum, ovatum. Stylus filiformis. Squamæ hypogynæ nullæ.

For the opportunity of making a drawing of this very rare plant, we are indebted to the Horticultural Society, to whom it had been presented in 1824 by the Court of Directors of the Honourable East India Company. It flowered in June in the stove, where it requires considerable heat.

This has been compared with authentic specimens of *Nerium tinctorium* of Roxburgh, communicated from the Botanic Garden, Calcutta, by Dr. Wallich, and found to agree with them in all respects.

*Stem* shrubby, somewhat twining. *Leaves* opposite, subsessile, ovato-lanceolate, acuminate, membranous, smooth on each side, green and opaque above, paler beneath, and netted with projecting veins. *Cymes* axillary, few-flowered, trichotomous, quite smooth. *Pedicels* round, green, slender. *Bracts* subulate. *Sepals* 5, ovate, transversely wrinkled, gibbous. *Scales* between the calyx and corolla very minute, subulate. *Corolla* white, smooth, hypocrateriform; *tube* twice as short as limb; *limb* spreading, 5-parted; segments linear, downy above, incurved at end, at the base having as many fringed appendages connected by shorter filiform processes and forming a corona; *tube* fleshy, honey bearing inside, half closed by the gibbous downy bases of the filaments. *Stamens* 5, alternate with the segments, inserted in the orifice. *Filaments* short, linear, incurved. *Anthers* subulate, acuminate, conniving in a cone much shorter than the segments of the corolla, sagittate at base, somewhat downy at back, and adhering by the ciliated end to the fusiform stigma, which has a ring in its middle. *Ovary* smooth, ovate. *Style* filiform. Hypogynous scales none.

J. L.





M. Hart del. J. Pennington sculp. Dec. 1. 1825. J. W. Allen.

## MARTYNIA lutea.

## Yellow Martynia.

## DIDYNAMIA ANGIOSPERMIA.

Nat. ord. PEDALINE. R. Br. prodr. nov. Holl. 1.319. (Bignoniarum sect. III. Juss. s. Sesamearum Kunth. pars.)

MARTYNIA L.—*Calyx* pentaphyllus inæqualis. *Corolla* ventricosa: limbo 5-lobo subæquali. *Filamentum* quintum sterile. *Ovarium* uniloculare; placentis duabus parietalibus bilobis oligospermis. *Stigma* bilobum. *Capsula* lignosa birostris, apice bivalvis, pseudo 4-locularis, seminibus pendulis.

*M. lutea*; foliis cordato-orbiculatis dentatis cum caule glanduloso pubescentibus, rostris pericarpio multo longioribus.

Caulis annua, 1½ pedalis, pallidus, teres, undique pilis glandulosis, brevibus, confertissimis diaphanis viscosus. Folia opposita, longè petiolata, patentia, horizontalia, orbiculata, basi cordata, lobis imbricatis, obtusa, denticulata, mollia, glanduloso-pubescentia, 5-7-nervia; petiolis teretibus, glanduloso-pubescentibus, versùs apicem attenuatis, folio longioribus. Racemus terminalis, erectus, pauciflorus, confertus, foliis vix altior. Flores undique glanduloso-pilosi. Pedicelli erecti, basi bracteis deciduis, lineari, pallidis suffulti. Calyx magnus, pallidus, bracteis duabus conformibus concoloribus oblongis lateralibus involucreto, 5-phyllus; sepalis exterioribus oblongis planis, lateralibus majoribus ½-dimidiatis, interioribus lineari lanceolatis obtusis paulò brevioribus. Corolla magna infundibularis, extùs piloso-glandulosa viridi-lutea, intùs glabra aurantiaca, tubo constricto, fauce ventricosè obliquè intùs sanguineo pulcherrimè punctatà, limbo patente 5-partito, lobis rotundatis subimbricatis: sinus protrusis; duobus superioribus minoribus basi glandulosis, inferiore multo majore reniformi undulato (sæpiùs ter). Stamina 4 didynama rudimento 5<sup>l</sup>. Filamenta crassa, purpureo fasciata, versùs coherentem superiorem faucis arcuata, tubo breviora. Anthere in crucem coherentes, glabræ: connectivo luteo, carnoso, diaphano, subundulato, valvulis discretis bilocularibus prominentibus. Pollen album sphericum liberum majusculum. Ovarium ovatum, dorso carinatum, in stipite brevi lutescente annulari insidens, glabrum, 1-loculare, polyspermum, placentis duabus bilobis parietalibus, lobis stigmatibus alternis, ovula horizontalia gerentibus. Stylus filiformis rectus glaber. Stigma bilobum lobis magnis foliaceis demùm recurvis, anteriore majore, utroque uninervi. Capsula lignosa, cymbiformis, aculeata, dorso cristata, cristà bipartibili laceratà, apice bicornis: cornubus biuncialibus, teretibus, inermibus, sursùm arcuatis; semi-bivalvis, unilocularis, pseudo 4 locularis: placentis quatuor lignosis septiformibus utrinque parietibus pericarpii appressis. Semina cuique placenta 2 v. 3,

*pendula, magna, plumbea nitore metallico, compressa, rugosa, ad hilum gibbosa; testa exterior crassa suberoso-coriacea, fibrosa, interior coriacea, alba, apice depressa hinc spilo discolore et funiculo tenui atriore testæ exteriori quasi affixa, basi lutea funiculo albo diaphano ad hilum verso. Embryo ovatus albus crassus compressus carnosus; cotyledones integræ, apice obtusissimæ, basi leviter sagittatæ; radicula depresso-conica, crassa, hilo proxima.*

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For this handsome annual species of *Martynia*, we are indebted to the Honourable and Reverend William Herbert, who communicated specimens in flower in August last, and by whom it was raised from seeds received from the Brazils. It probably requires the treatment applicable to other half-tender annuals.

The station to be assigned to *Martynia*, in a natural arrangement, has been fixed by the illustrious de Jussieu in the 3d section of his *Bignoniæ*, and it has been suffered to remain in nearly the same place, by succeeding Botanists. To this arrangement, it may be perhaps considered that there is no material objection to offer; but there are some points connected with the structure of *Martynia*, to which it is our wish to call attention, whether they be considered confirmatory of its present station or not. In the first place, its capsule has been, we believe always, described as 4-locular; a character which *Martynia* has been supposed to possess in common with certain undoubted *Bignoniaceæ*, rightly, however, designated as pseudo-4-locular, by Mr. Brown. But upon a careful examination of the ovary, it will be found that the fruit, in that stage, is neither 4-celled, nor even 2-celled, but consists of only one cell, traversed by two projecting, parietal placentæ, each of which is two-lobed; the lobes dividing at right angles, from their point of separation, and bearing on their edges a few horizontal ovula, of which part project into the open centre of the ovary, and the others into the cavity between the placenta and the lining of the ovary. Now the capsule differs from the ovary in no essential point of structure; but the following changes take place: the pericarpium and the placentas become woody and rigid; the inner faces of the latter become pressed together, so as to destroy the ovula which were placed between them, and to exhibit the appearance of a bilamellar dissepiment, and the remaining ovula become pendulous, and reduced



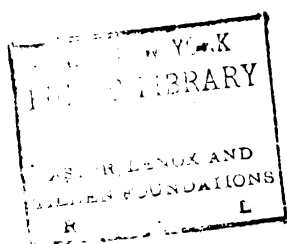
in number, and exist in the form of large apterous seeds between the inner edge of the lateral lobes of the placenta and the endocarpium.

From the 2d section of Jussieu's Bignoniæ, or what are now considered genuine Bignoniaceæ, Martynia is therefore distinguished by its unilocular ovary: it also differs in the definite number of its seeds, which have a woody testa, and no wing; in its nearly indehiscent fruit; and in the cohesion of its anthers; and in the compound, not simple, nature of its calyx. Of the value of the first point of difference, which we do not consider material, we shall have more room to speak when we come to Eccremocarpus, fol. 939. To the others, we are disposed to attach a higher degree of importance. In fact, they indicate a greater affinity between Pedalinæ and Martynia, than Bignoniaceæ. The former order, which was first proposed by Mr. Brown, excludes Martynia, chiefly on account of the seeds of the latter being more than one or two; but this circumstance is of much less importance than the union of other characters by which it could be included. The texture of the capsule, the testa and form of the seeds, and even the position of the latter, which, although erect in Josephinia, are pendulous in Pedalium, are the same in Martynia and Pedalinæ. To the latter order, slightly modified, we would, therefore, refer Martynia.

We observe, that Pedalinæ are reduced to Bignoniaceæ, by our friend M. Kunth, but in that opinion we cannot coincide. See fol. 939.

J. L.







## STELIS ophioglossoides.

### *Narrow-leaved Stelis.*

#### GYNANDRIA MONANDRIA.

*Nat. ord. ORCHIDÆ: tribus Malaxidæ. Lindl. Coll. Bot. ined.*

*STELIS Swartz. Pollinia 2 cereacea integerrima; v. omninò libera, v. apicibus viscidis cohærentia, caudiculâ glandulâque nullis. Anthera terminalis opercularis 1-ocularis decidua. Stigma subrotundum excavatum: rostello apiculato. Columna semiteres mutica. Labellum parvum sepalis interioribus nanis liberis subconforme. Sepala conniventia: exteriora basi connata. — Herbæ teneres, epiphytæ, (Americæ æquinoctialis) non bulbosæ. Folia solitaria. Racemi subsimplices. Flores minuti, herbacei, in odori et quandoque nocturni.*

*S. ophioglossoides; foliis tenuibus lanceolatis apice sæpiùs recurvis, spicis laxis, floribus cernuis quaquaversis obsolete hexagonis, sepalis interioribus truncatis, labello basi subcordato.*

*Epidendrum ophioglossoides. Jacquin Amer. 225. t. 133. f. 2.*

*Epidendrum trigoniflorum. Swartz prodr. 135.*

*Dendrobium ophioglossoides. Swartz nov. act. ups. 6.83.*

*Stelis ophioglossoides. Swartz in Schrad. diar. bot. 1799. p. 239. Willd. sp. 4.138. Lodd. bot. cab. t. 442.*

*Folia solitaria, oblonga, glabra, plana, enervia, apice ferè integra, in petiolo carnosio, canaliculato attenuata. Spica terminalis, filiformis, multiflora, folio longior, vaginis parvis, truncatis, acuminatis interruptè vestita. Flores vespertini, minutissimi, resupinati, subsecundi, subrotundi, angulis 6 obsoletis. Perianthium subglobosum; sepala exteriora, ovata, obtusa, coriacea, basi connata, sub-fornicata, æqualia, interiora nana, carnosia, truncata. Labellum carnosum, cum columnâ parallelum, sepalis interioribus subconforme, lamina depressâ, cordatâ. Columna brevissima semi-teres, sepalorum interiorum longitudine. Anthera terminalis, opercularis, unilocularis, decidua. Pollinia 2, libera, caudiculâ nullâ.*

A native of Trinidad, whence plants were sent by Mr. D. Lockhart to Mr. James Colvill, in whose nursery our drawing was made. A tender stove plant, requiring the treatment of other epiphytal Orchidæ.

We find much difficulty in ascertaining the true characters by which *S. ophioglossoides* and *micrantha* are to be

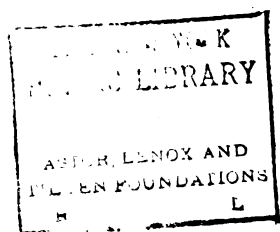
distinguished from each other; the points noticed by Swartz appearing to be altogether inapplicable. To this species, which we have compared with authentic specimens from himself in the Banksian Herbarium, he attributes triangular flowers, while, in fact, they possess that character in a much less degree than *S. micrantha*, to which he assigns hexangular flowers. The latter species, elegantly figured by Dr. Hooker in his *Exotic Flora*, differs from the subject of this article in having a rigid obtuse leaf, and a compact raceme of nodding flowers, which, when closed, present a distinctly triangular appearance. In all which characters it is opposed to *S. ophioglossoides*. The leaves of the latter are more membranous, and are almost always recurved at the end, where they are sometimes toothed; the flowers are larger and less compactly arranged in the spike; there is also a difference in the form of the inner floral segments and labellum. *S. micrantha* would therefore be more satisfactorily characterised thus:

*S. micrantha* (Swz.), foliis oblongo-lanceolatis obtusis coriaceis, floribus nutantibus secundis trigonis, sepalis interioribus apiculatis labelli coniformibus.

Of *S. ophioglossoides* we possess native specimens from St. Vincents, communicated to us by our friend Dr. Hooker; they in no essential point differ from the plants in our gardens.

*Leaves* solitary, oblong, smooth, flat, nerveless, nearly entire at the end, narrowed into a channelled fleshy stalk. *Raceme* terminal, filiform, many-flowered, longer than the leaf, dotted at intervals with small truncate acuminate vaginæ. *Flowers* very minute, resupinate, somewhat on one side, roundish, with 6 obsolete angles. *Perianth*, with the outer sepals, ovate, obtuse, coriaceous, connate, and somewhat fornicate at the base, equal; inner, dwarf, fleshy, and truncated. *Lip* fleshy, parallel with the column, nearly of the same form as the inner sepals, with a depressed cordate lamina. *Column* very short, half-round, the length of the inner sepals. *Anther* terminal, opercular, 1-celled, deciduous. *Pollen-masses* 2, loose, with no caudicula.

J. L.





*St. John's Wort* (Hypericum) 189. Pleasantly Dec 1, 1925 J. White



# KNOWLTONIA vesicatoria.

## *Blistering Knowltonia.*

### POLYANDRIA POLYGYNIA.

*Nat. ord.* RANUNCULACEÆ: *tribus* Anemoneæ. *Dec. regn. veg.* 1.129.

*KNOWLTONIA* Salisb. (*Thebesia* Neck? *Anamenia* Vent.) *Calyx* 5-sepalus. *Petala* 5-15, ungue nudo. *Stamina* 00. *Ovaria* 00 receptaculo globoso imposita. *Cariopsides* 00 monospermæ baccatæ, stylo deciduo muticæ. *Dec. l. c.* p. 218.

*K. vesicatoria*; foliis biternatim sectis, segmentis subcordatis rigidis glabriusculis, lateralibus basi oblique truncatis, umbella subsimplici pauciflora. *Dec. l. c.*

*Ranunculus perelegans* D. Franqueville foliis aculeatis. *Lob. st. ill.* 135.

*Astrantia africana laserpitii* foliis latioribus rigidis et spinosis. *Morison hist.* 3 p. 279.

*Imperatoria ranunculoides africana enneaphyllos laserpitii lobatis foliis rigidis margine spinosis.* *Pluk. alm.* 198. t. 95. f. 2.

*Adonis vesicatoria.* *Linn. suppl.* 272. *Ait. Kew. ed.* 1. 2.264. *Willd. sp. pl.* 2.1307.

*Adonis capensis.* *Lam. dict.* 1. p. 46.

*Knowltonia vesicatoria.* *Bot. mag.* t. 775. *Ait. Kew. ed.* 2. 3.351.

*Anamenia laserpitiiifolia.* *Vet. malm.* 1. p. 22. in obs. *Willd. enum.* 586.

*Anamenia vesicatoria.* *Dum. cours. bot. cult.* 4.438.

*Adonis laserpitiiifolia.* *Pers. suppl.* 1.147.

M. De Candolle remarks, that this genus is just intermediate between *Hydrastis* and *Adonis*, with the former of which it agrees in fruit, and with the latter in flowers. It was named after Mr. Thomas Knowlton, formerly curator of Sherard's famous garden at Eltham.

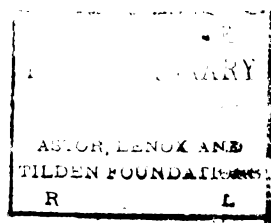
It is curious that this, which has altogether the appearance of an umbelliferous plant, should have been referred by Lobel to *Ranunculus*, a nearly allied genus, but to which it bears little resemblance, at a time when the affinities of plants had scarcely been considered. Morison

and Plukenet, afterwards, as might have been expected, referred it to Umbelliferæ.

A hardy greenhouse, evergreen, herbaceous plant, with little beauty. It may be cultivated without any care in a sandy loam, and flowers in the winter months.

The acidity of the leaves is such as to cause violent inflammation and cutaneous swelling upon their application, whence the specific name of the plant.

J. L.





Painted by J. Schumacher 169. Engraved by J. D. L. 1825

## BANISTERIA laurifolia.

### *Laurel-leaved Banisteria.*

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#### DECANDRIA TRIGYNIA.

*Nat. ord.* MALPIGHIACEÆ: *tribus* 3. Banisteriæ *Dec.*

**BANISTERIA** L.—*Calyx* 5-partitus extūs ad basin 8-10-glandulosus. *Petala* unguiculata, subrotunda. *Stamina* 10, filamentis subulatis basi cohærentibus. *Styli* 3, apice sæpius in foliola explanati! *Carpella* indehiscencia 3, 1-sperma subdistincta demum separabilia, desinentia in alam simplicem, membranaceam, ad latus superius incrassatum. *Semen* 1 pendulum in quoque loculo. *Cotyledones* crassæ, inæquales. *Radicula* supera ad hilum versa.—Arbores frutices-ve sæpè scandentes. *Dec. prodr.* 1.587.

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#### DIV. III. *Foliis ovatis oblongisve.*

**B. laurifolia**; foliis ovato-oblongis acutis subcoriaceis glabris, petiolis eglandulosis, racemis paniculatis terminalibus ferrugineo-tomentosis, stigmatibus dimidiatis. *Dec. l. c. p.* 589.

**Acer scandens** foliis laurinis. *Sloane jam.* 137, *hist.* 2. p. 26. *Raii dendr.* 94.

**B. laurifolia.** *Linx. sp. pl.* 611. *Swartz. obs.* 182. *Willd. sp. pl.* 2.740. *Ait. Kew. ed.* 2. 3.106. *Spreng. syst. veg.* 2.387.

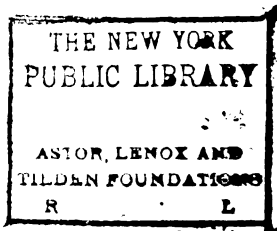
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We are not aware of the place from which this drawing was obtained.

The plant has long been cultivated in the stoves of this country, having been sent to Miller, from Carthagera, by Dr. Houstoun, before the year 1733. It very rarely produces its flowers in this country, which is probably the cause of its not having been previously represented in any Botanical publication. The specimen from which the drawing was made appears to have been in a weak state, the flowers usually forming, in the West Indies, a small branched panicle.

M. De Candolle seems to consider this a doubtful species of *Banisteria*, and questions whether it may not rather be an *Heteropteris*, a genus divided by M. Kunth from *Banisteria*, on account of the wing of the pericarpium being thickened at the base, and not at the apex.

J. L.





*Hibiscus*

*var. ... by ... Dec 1825*

*J. Watson*



## HIBISCUS ficulneoides.

*Dwarf Yellow Hibiscus.*

## MONADELPHIA POLYANDRIA.

Nat. ord. MALVACEÆ.

HIBISCUS.—*Suprà* vol. 10. fol. 860.

Sect. III. Manihot. *Carpella seu capsula loculamenta polysperma. Semina glabra. Involucella 4-6 phylla. Calyx spathaceus 5 dentatus longitudinaliter ruptus.* Dec. prodr. 1.448.

*H. ficulneoides*, caule fruticoso inermi, foliis cordato-ovatis obtusis grosse dentatis integris trilobisve involucelloque pubescentibus.

*Althæa indica* *Hederæ terrestris* ferè foliis flore purpureo magno. *Plukenet amalth.* p. 11. t. 355. f. 4.??

Specimens of this plant were communicated to us in April 1819, by the Honourable and Rev. W. Herbert, from his stove at Spofforth, with the following note :

“ From the Mauritius and the East Indies. Leaves various, some entire, some 3-lobed. A very dwarf, perennial shrub. It will flower at the height of six inches, and an old plant seldom much exceeds a foot. It requires a very small pot, and if placed on a hot flue, will flower throughout the year, abundantly in winter. It will thrive with a degree of heat to the root which would scorch the hand, and perhaps grows naturally in the crevices of rocks which become very hot. I have found no other plant able to bear the heat it will endure under the root. I have had seed of it, frequently, without name, from different quarters, once from Calcutta, under the name of *H. Ficulneus*. It has, however, no resemblance to the *Ficulneus* of Cavanilles, nor, indeed, to any *Hibiscus* figured by Cavanilles. In the form of the flowers it a little resembles that of *H. pedunculatus* of the Bot. Reg., but the flowers expand rather wider than those of *pedunculatus* in that engraving. The whole plant is downy. The colour of the petals is a deep primrose colour, with a small purple spot

at the base of each. The specimen represented is nearly one-third of a plant four years old which has been in constant blossom.

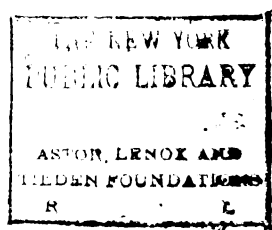
We cannot trace this species among any recorded in the works to which we have access. There can be little doubt of its belonging to the *Manihot* section of *M. De Candolle*, and, perhaps, it is most nearly related to his *H. Pseudo Manihot*, found by Bory de St. Vincent in grassy meadows on the borders of the river St. Denis, in the island of Bourbon; but that species is said to have 3-fid long-pointed leaves, and an hispid involucre. To the *H. Borbonicus* described by Link in his Enumeration of the Berlin Garden, it also appears to have considerable resemblance, especially in the form of the leaves; it is, however, obviously distinguished from that species by the small size of its flowers, and of the leaves of the involucre, which are an inch long in *H. Borbonicus*. To *H. obtusifolius* of Willdenow, it seems to have some resemblance; but that is an annual, and is otherwise distinct. *H. ficulneus* has prickly stems and palmate leaves.

The unappropriated figure which we have ventured to cite from Plukenet is so similar to this plant, that we cannot persuade ourselves of its not being intended for a representation of it, notwithstanding the purple flower which is attributed to that plant by the author.

J. L.

#### ERRATUM.

Fol. 930, third page, line 21, *for affinis, read affine.*





*M. Hart del. Pub. by S. Ridgway 104 Piccadilly Decr. 1823.*

*J. Wats. sc.*

# **ECCREMOCARPUS scaber.**

## *Rough-fruited Eccremocarpus.*

### **DIDYNAMIA ANGIOSPERMIA.**

*Nat. ord.* BIGNONIACEÆ.

**ECCREMOCARPUS.** *Fl. Per.* Calyx campanulatus semiquinque-partitus persistens. Corolla tubulosa: ore constricto; limbo 5-lobo. Stamina inclusa subregularia; rudimento quinti glabro. Antheræ liberæ carnosæ, glandulosæ. Ovarium superum 1-loculare. Stigma bilamellatum æquale. Capsula supera 1-locularis bivalvis polysperma: placentis parietalibus. Semina membranaceo-alata imbricata. Albumen nullum. Cotyledones integerrimæ.

*E. scaber*, scandens, cirrhifer, foliis pinnatis bijugis, foliolis obliquè cordatis serratis. *Sprengel. syst. veg.* 2.836.

*E. scaber* *Fl. Peruv. prodr.* p. 90. *syst. veg.* p. 157. *Pers. syn.* 2.173.

Caulis in horto sub dio herbaceus 6-pedalis scandens, tetragonus, sulcatus, glaber. Folia opposita, exstipulata 3-pinnata, petiolo angulato subpubescente, cirrho terminali sulcato ramoso: foliolis carnosiusculis, ovatis v. cordatis, integris v. 2-3-lobis, lobis ovatis obtusis. Racemi horizontales, oppositifolii, laxi, multiflori (8-9). Pedicelli solitarii, 1½-unciam longi, glanduloso-pubescentes, ut etiam rachis. Bracteæ breves subulatæ. Calyx purpureo-viridis, campanulatus, semi-5-partitus, æqualis, extus glanduloso-pilosus: laciniis ovatis acutis patentibus. Corolla basi mellifera, calyce triplo longior, tubulosa, dorso plano, ventre inflato, versùs basin constricto, foveis quinque pro receptione laciniarum calycis: tubo latè coccineo, præsertim versùs basin, undique glanduloso-pubescent, ore constricto, limbo brevi patente aurantiaco obsolete 5-lobato. Stamina ad summum constrictionis inferioris corollæ inserta, quatuor fertilia, rudimento brevi quinti, tubo breviora, et ad ejus dorsum appressa. Filamenta filiformia, glabra. Antheræ liberæ, connectivo magno, carnosio, glanduloso-papilloso, altè bilobo, in marginem anteriorem gerente loculos parallelos, approximatos, apice connatos, polline quàm maximè repletos. Pollen minutissimum ovale. Ovarium superum, ovatum, papillosum, viride, in disco magno, carnosio, albido, annulari insidens, uniloculare, placentis 2 carnosius parietalibus polyspermis. Stylus staminum longitudine, cum ovario articulatus, rectus, rigidus, filiformis. Stigma luteum, carnosum, bilamellatum, æquale. Capsula nucis avellanæ majoris magnitudine, papyracea, ovata, compressa, in pedicello spurio attenuata, et reliquiis calycis discique calyculata, ad apicem teres obtusa; superficie glabrâ tuberculatâ; unilocularis, bivalvis, valvulis apice coherentibus (an in fructu omninò maturò?), intus pariete glaberrimo nitido, placentis duobus parietalibus linearibus corrugatis, per axin valvularum trajectis. Semina plurima, atra, placentæ imbricatim adhærentia, tenuia, plano-conveza, alata. Testa exterior

*tenuis, in disco subcrustacea, ad marginem duplex diaphana, subintegra, undique venis brunneis, furcatis, distinctis pulcherrimè radiata, ad hilum emarginata. Embryo ovatus, compressus, albus, inclusus in testâ interiore tenaci, opacâ, pallidè luteâ, ab exteriori omninè liberâ, nec etiam intrâ marginem membranaceum extensâ, ad apicem tuberculo parvo paululùm unilaterali (chalusa?), ad basin in funiculo ipsâ longiore tenui convoluto productâ. Cotyledones, carnosì, compressi, subrotundi. Radicula parva, obtusa, hilo proxima.*

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This splendid plant was first raised in 1824, by Mr. Tate, of the Sloane Street Nursery, from Mexican seeds communicated to him by R. P. Staples, Esq. Our drawing was made in Mr. Tate's Nursery in July last.

In Chili it becomes half-shrubby, and climbs all over the hedges and bushy plants in its vicinity, which it ornaments with a profusion of lovely vermilion-coloured flowers, which appear at almost all seasons of the year. In this country its habits have been scarcely ascertained; it thrives in the open border, better than in a greenhouse, but the first frost destroys it. Probably the treatment applied to *Cobæa scandens*, would be the most suitable for it. We possess native specimens, sent from Mendoza, by our friend Dr. John Gillies.

M. Kunth has expressed some doubts of the capsule being really unilocular, as that character appeared to be at variance with the structure common to other Bignoniaceæ. But it will appear, from the above description, that it is, in its earliest state, strictly unilocular with two parietal placentæ; if, therefore, the single cell of Bignoniaceæ were an essential characteristic of that order, *Eccremocarpus* would not be referrible to it. Let us, however, examine the ovarium of one of the commonest species of Bignoniaceæ, *B. radicans*. In this plant two fungous roundish placentæ issue from the sides of the ovarium, and jutting out into the cavity, finally meet in the centre, and there become united; now, in *Eccremocarpus*, these placentæ have precisely the same fungous form, and derive their origin from the sides of the ovarium in like manner, but they do not extend far enough into the cavity to touch each other, and, therefore, no cohesion takes place between them; whence the ovarium is unilocular.

The same kind of diversity of structure also obtains in *Pedalinæ* as proposed to be limited at fol. 934. In that order, at least in *Martynia Zaquebarica*, which is either a species of *Josephinia*, or a nearly related genus, the two opposite placentas meet in the centre, where they form a cohesion, but being 2-lobed, and their lobes revolute, a cohesion is again formed with the sides of the endocarpium, where the edges of the lobes touch it; whence the capsule is 6-celled, the two anterior and posterior empty cells being formed by the space occasioned by the divergence in opposite directions of the lobes of the placenta, and the 4 lateral seminiferous cells owing their existence to the accretion of the lobes of the placenta to the sides of the ovarium. Now, in *Martynia*, there being no folding back of the lobes of the placenta, which, on the contrary, are at right angles with their centre, and no cohesion taking place between the placentas themselves or their edges and the sides of the ovarium, the necessary consequence is, that the pericarpium is unilocular, with spurious cells; whence it may be predicated that *Martynia* bears the same relation to *Pedalinæ* as *Eccremocarpus* to *Bignoniaceæ*.

Perhaps *Eccremocarpus* may most properly be considered the connecting link between *Bignoniaceæ* and *Gesneriæ*, agreeing with the latter in their unilocular ovarium, glandular pubescence, and some other peculiarities of appearance, and with the former in their more essential attributes. *Cyrtandraceæ* of Dr. Jack, which certainly have a 2-celled capsule as described by that lamented Botanist, and not a 4-celled one as erroneously stated by the author of some remarks upon *Didymocarpeæ* (which are the same order under another denomination), differ from *Bignoniaceæ* only in their apterous seeds and simple stigma, and from *Gesneriæ* in their bilocular capsule, and the absence of albumen, agreeing with the latter altogether in habit; they may therefore be considered to have on the part of *Gesneriæ* nearly the same relation to *Bignoniaceæ*, as *Eccremocarpus* on the part of the latter bears to *Gesneriæ*.

J. L.

## NOTE.

Since publishing, at fol. 932, our remarks upon the relative position of the barren and fertile stamens of Canneæ, and the degree of affinity consequent thereupon, between that order, and Orchideæ, a friend has pointed out to us a passage, in a work of Mr. Brown's long since published, in which a similar statement has been made. Of course we were not aware of the existence of this passage, at the time our article was sent to press, or we should have noticed it. We now, however, hasten to lay it before our readers, and in so doing, we may be allowed to express our satisfaction at finding our opinion, upon what is certainly an obscure, although, as we have endeavoured to demonstrate, an important point of structure, confirmed by the more acute observations of our much-valued friend.

"Marantæ, or Canneæ," says this distinguished Botanist, "differ from Scitamineæ in the mutual relation of their barren and fertile stamina, somewhat as *Cypripedium* does from the other genera of Orchideæ; except that in Marantæ the imperfection is greater, a single lobe only of one of the lateral stamina having the appearance of an anthera, and producing pollen." *Brown in Appendix to Flinders*, 2.575.



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## PANCRATIUM Mexicanum.

### *Mexican Pancratium.*

#### HEXANDRIA MONOGYNIA.

Nat. ord. AMARYLLIDÆ.

PANCRATIUM. *Suprà* vol. 3. fol. 221.

DIV. II. *Floribus sessilibus v. subsessilibus; limbo radiato; dentibus senis coronæ staminiferis.*

P. *mexicanum*; bi-multiflorum, foliis lineari-lanceolatis acuminatis, corollæ laciniis linearibus tubo longioribus, coronâ rotato-turbinatâ denticulatâ staminibus multò brevioribus, stigmate capitato, bulbi collo elongato.

P. *mexicanum* flore gemello candido. *Dill, elth.* 229. t. 222. f. 289.

P. *mexicanum*. *Linn. sp. pl.* 1.418. *Willd. sp. pl.* 2.42. *Ait. Kew. ed.* 2. 2.218. *Ker. in Journ. scientiæ cum ic. ex delineatione in museo Banksiano.*

Bulbus *Narcissi* majoris magnitudine, collo elongato. Folia lineari-lanceolata, canaliculata, apice attenuata, atro-viridia, glaucescente nullâ. Scapus teres. Umbella 4-5-flora, spathâ multiplici, foliolis exterioribus latè ovatis sphacelatis, tubi dimidio longitudine. Flores sessiles albi; tubus circiter 3-uncias longus, obsolete hexagonus; perianthii laciniæ lineares dependentes tubo paulò longiores; corona rotato-turbinata, laciniis multoties brevior, margine denticulato. Stamina rigida è margine coronæ, erecta, coronâ multò longiora, filamentis viridibus. Stylus viridis, declinatus, staminum longitudine. Stigma capitatum. Semina carnea.

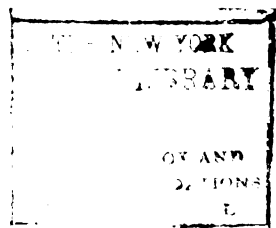
For the re-introduction of this fine species of *Pancratium*, from Mexico, the public is indebted to Sir Alexander Johnson, by whom it was presented to Mr. Colvill, with many curious Mexican seeds.

That it is the same as *P. mexicanum* of Linnæus, as determined by Mr. Dryander there can be little doubt. The figure given by Mr. Ker, from the Banksian library, represents a weak specimen, with two flowers, just as the 1082d plate of the Botanical Magazine exhibits a similar state of *P. rotatum*, to which this species is most nearly allied.

We have not seen the species in a growing state, but it appears, from information communicated to us by Mr. Sweet, that it is very distinct from any other in cultivation. The bulb, which is like that of a *Narcissus*, has a long, slender neck, and the leaves are of a bright green colour. It also seems to possess the character of perfecting nearly all its seeds, of which in other fleshy-seeded species only a small number arrives at perfection.

A hardy, green-house plant, flowering in April and May. *Leaves* linear-lanceolate, channelled, narrowed at the end, dark green, without glaucousness. *Scape* round. *Umbel* 4-5-flowered, with a many-leaved spatha, of which the outer divisions are broad, ovate, and withered, about half as long as the tube. *Flowers* sessile white; *tube* about 3 inches long, obscurely 6-cornered; *segments* linear, hanging down, a little longer than the tube; *corona* rotate-turbinate, much shorter than the segments, toothletted at edge. *Stamens* rigid, from the margin of the corona, erect, much longer than corona, with green filaments. *Style* green, declinate, the length of stamens. *Stigma* capitate. *Seeds* fleshy.

J. L.





*M. Kuntze del.*

*Pub. by J. Pedgley, 169, Broadway, Jan. 1, 1826.*

*J. M. Smith sc.*



# MIMOSA pudica.

## Humble Plant.

### POLYGAMIA TETRANDRIA.

Nat. ord. LEGUMINOSÆ, Tribus VIII. *Mimoseæ* Decandolle prodr. 2425.

*MIMOSA* Adanson.—*Flores* polygami. *Petala* 4-5 in corollam infundibuliformem 4-5 fidam connata. *Stamina* imæ corollæ aut ovarii stipiti inserta, numero lobarum æqualia, dupla triplave nempe 4-15. *Legumen* compresso planum 1-00 articulatum, articulis monospermis, costis (reple R. Br.) persistentibus.—*Stipulæ* petiolares. *Folia conjugato-digitata aut duplicato-pinnata*. *Flores rosei aut albi in capitula digesti*. *Folia sæpe tactu sensibilia*. Decand. l. c.

Sect. I. Eumimosa Dec. *Legumina compresso-moniliformia, nempe costis ad articulationes contractis*.—*Flores rosei*.

*M. pudica*; caule herbaceo aculeato plus minùs petiolis pedunculisque piloso-hispidis, foliis subdigitato-pinnatis, pinnis 4 multijugis, foliolis linearibus. Dec. l. c. p. 426.

*Æschynomme spinosa*, &c. *Comm. hort.* 1. t. 29.

*M. spinosa* 3 siliquis parvis echinatis *Breyn. cent.* 40. t. 18.

*M. pudica* L. *sp. pl.* 1501. *Willd. sp. pl.* 4.1031. *Bot. Rep.* t. 544. *Ait. Kew. ed.* 2. 5. 455.

Var. *M. tetrandra*. *Willd. sp. pl.* 4.1032. sec. Decandolle.

Our drawing of this plant was made in the Garden of the Horticultural Society, where it had been raised from seeds received from Henry Willock, Esq. his Brittannic Majesty's Envoy to the Court of Persia. It is said to be a native of Brazil, but has now been introduced into every part of the world, not only for its beauty, but for the singular sensibility of the foliage.

In this country it may be treated as a tender annual, when it speedily arrives at perfection. To maintain a high degree of sensibility, it is necessary to keep it exposed to the influence of much heat, light, and humidity. It

therefore succeeds best in a well-managed iron curvilinear hothouse.

We are not sure whether this is the Persian plant called *Suluque*, mentioned by Christopher A Costa (cap. lv.) under the name of *Herba Viva*, to which some curious properties are ascribed, and which he says, “affirmârunt utilem esse virgines corruptas in integrum restituendas.”

The singular and well-known property which the leaves of this and some other plants possess of retiring from the touch, and of exhibiting a kind of sensibility which is more the attribute of animal than of vegetable organisation, has lately been the subject of a curious memoir from the able pen of Dr. Dutrochet, a distinguished French Physiologist. As the opinions of that writer are little known in this country, we believe we cannot render a more acceptable service to our readers than by availing ourselves of the present opportunity of giving a short exposition of them.

M. Dutrochet states, that having ascertained hot nitric acid to possess the power of separating and reducing to its simplest form the whole mass of vegetable tissue, and that the action of the same acid produced other effects equally advantageous for the examination of the most obscure parts of vegetable structure, he was induced to give his attention to that of the *Mimosa pudica*, in the hope of gaining some evidence respecting the cause to which its sensibility is to be ascribed. Beginning with the pith, he observed a considerable number of minute globules of a greenish colour, intermingled among the cells, and adhering to them in an irregular manner. After attempting to shew the probability of these globules having deceived M. Mirbel in various points of his analysis of vegetation, and especially in regard to the pores which that Botanist supposes to exist in the cellular tissue of plants, Dr. Dutrochet proceeds to remark, that the application of hot nitric acid to these globules renders them perfectly opaque, whence he concludes that they are, in fact, minute cells filled with a particular fluid, which is subject to become concrete by the application of acids. Now it is known that such fluids as are thus altered by acids, are usually dissolved and liquefied again by the application of alkalies. A few drops, therefore, of a solution of hydrate of potash were suffered to fall upon

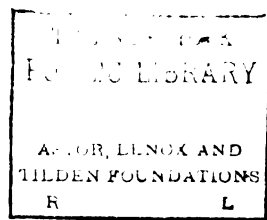


a portion of the pith on which nitric acid had been acting, and the mixture was exposed to the heat of a lamp. Being examined after a few minutes, the globules were found to have resumed their natural appearance. This curious fact indicated, in the opinion of Dr. Dutrochet a strong and unexpected point of analogy between plants and animals. According to the microscopical researches of some modern observers, it has been ascertained that all the organs of animals are composed of a conglomeration of minute corpuscles, similar to those just described; the corpuscles which constitute the muscles are soluble in acids, but those which compose the nervous system are insoluble in the same acids, and only soluble in alkalies. Now, as the chemical properties and the external appearance of the particles scattered among the cellular tissue of plants, and constituting the nervous system of animals are the same, the author is induced to infer that the spherical particles of plants are in fact the scattered elements of their nervous system. This hypothesis receives additional strength from the great similarity which exists between the medullary substance of the brain of Mollusca Gasteropoda and the cellular medullary tissue of plants. In pursuit of this idea, Dr. Dutrochet made a variety of experiments upon the sensitive plant, the results of which seem to be these. The principal point of locomotion, or of *motility*, exists in the little swelling which is situated at the base of the common and partial petioles of the leaves; this swelling is composed of a very delicate cellular tissue, in which is found an immense number of nervous corpuscles; the axis of the swelling is formed of a little fascicle of tubular vessels. It was ascertained by some delicate experiments that the power of movement, or of contraction and expansion, exists in the parenchyma and cellular tissue of the swelling, and that the central fibres have no specific action connected with the motion. It also appeared that the energy of the nervous powers of the leaf depended wholly upon an abundance of sap, and that a diminution of that fluid occasioned an extreme diminution of the sensibility of the leaves. Prosecuting his remarks yet further, the author ascertained, that in the motion of the sensitive plant two distinct actions take place, the one of locomotion, which is the consequence of direct violence offered to the leaves, and which occurs in the swellings already spoken of;

the other of nervimotion, which depends upon some stimulus applied to the surface of the leaflets, unaccompanied by actual violence, such as the solar rays concentrated in the focus of a lens. As in all cases, the bending or folding of the leaves evidently takes place from one leaf to another with perfect continuity, it may be safely inferred, that the invisible nervous action takes place in a direct line from the point of original irritation, and that the cause by which this action of nervimotion is produced must be some internal uninterrupted agency. This was, after much curious investigation, determined by the author to exist neither in the pith, nor in the bark, nor even in the cellular tissue filled with nervous corpuscles, and on which he supposes the locomotion of the swelling at the base of the petioles to depend. It is in the ligneous part of the central system, in certain tubes supplied with nervous corpuscles, and serving for the transmission of the sap, that Dr. Dutrochet believes he has found the true seat of nervimotion, which he attributes to the agency of the sap alone, while he considers the power of locomotion to depend upon the nervous corpuscles alone.

Without subscribing to this doctrine, unless with some exceptions, such, for instance, as to the essential difference between locomotion and nervimotion, which are, perhaps, capable of being identified, we cannot but express our admiration of the industry, dexterity, and philosophical acumen displayed by the author in every part of his work, which is well deserving the attentive consideration of all physiological botanists.

J. L.





*M. speciosa*

Painted by J. S. G. (C. S. G.) in 1842

1842

## CAMELLIA oleifera.

*Oil-seed Camellia.*

## MONADELPHIA POLYANDRIA.

Nat. ord. CAMELLIÆ. Decand. prodr. 1.529. Theacæ Mirb:  
CAMELLIA L.—Suprà vol. 1. fol. 22.

- C. *oleifera*; foliis ellipticis utrinque acutis argutè serratis subtùs subaveniis, petalis bilobis, sepalis deciduis.  
C. *oleifera*; foliis ellipticis acutis subtùs aveniis punctatis, calycibus sericeis, germine lanato. *Abel's Journey in China*, p. 174. c. *icone bonè*; *Appendix*, p. 363.

Frutex altus, v. arbor mediocris, ramosissimus. (Abel.) Ramuli teretes, brunnei, pube levissimè obsiti. Folia coriacea, glabra, plana, elliptica, utrinque acuta, apicem versùs acutè serrata, subtùs pallidiora ferè omninò avenia, sub lente puncticulata, pedunculata: pedunculis subteretibus leviter ciliatis. Flores axillares, v. terminales, solitarii, sessiles, albi, magnitudine C. *Sasanquæ*. Calyx imbricatus, polyphyllus, sericeus: foliolis inferioribus deciduis, duobus superioribus majoribus petaloideis persistentibus. Petala 5-6, biloba, plana, cuneata, patentia. Stamina plurima, erecta, altè monadelphica, in anulum basi petalorum accretum et cum iis deciduum cohærentia. Antheræ ut in *Thea Bohea*, sed basi minùs cordatæ. Pollen sphericum minutissimè corrugatum. Ovarium triloculare, loculis 5-6 spermis; ovula angulata, valdè inæqualia. Styli 3 ad apicem ferè connati. Stigmata totidem, simplicia, paulò capitata.

This species of *Camellia* has been overlooked by M. De Candolle in his arrangement of the genus in the first volume of his *Prodromus*. It was imported for the Horticultural Society, in 1820, by Captain Nesbitt, in the Honourable East India Company's Ship, the *Essex*, from which, and subsequent importations for the society, all the plants now in this country have been derived. Our drawing was made at Mr. Colvill's Nursery, last autumn. It requires the same management as other *Camellias*.

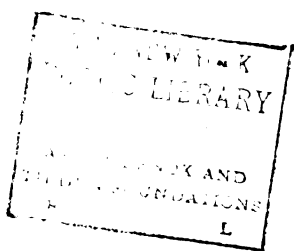
The *Thea oleosa* of Loureiro seems to be very nearly the

same as this, and like it produces an abundance of fine pale yellow oil, which is used in China for various economical purposes. Judging, however, from Loureiro's description, the two plants can scarcely be identified, notwithstanding the resemblance in the Cochinchinese name, Chè-deau, ascribed to his plant by that author, and the Chinese name Tcha-Yeoa, mentioned by our friend Dr. Abel, who thus speaks of the *C. oleifera* which he found in the southern provinces of the Chinese empire.

“ We sometimes found it of the magnitude of a moderate-sized cherry-tree, and always that of a large shrub, from six to eight feet in height, and bearing a profusion of large single white blossoms. This circumstance gave an interesting and novel character to the places which it covered. They often looked in the distance as if lightly clothed with snow ; but on a nearer view exhibited one immense garden. The *Camellia oleifera* seems to flourish best in a red sandy soil, on which few other plants will grow. The Chinese cultivate it in large plantations, and procure from its seed a pure esculent oil, by a very easy process.”

A tall shrub, or middle-sized tree, with many branches. *Branches* round, brown, with a very slight down. *Leaves* coriaceous, smooth, flat, elliptical, acute at each end, towards the end acutely serrated, beneath of a paler colour, with scarcely any veins, but a few minute dots. *Flowers* axillary or terminal, solitary, sessile, white, the size of those of *Camellia Sasanqua*. *Calyx* imbricated, many-leaved, silky; the lower leaflets deciduous, the two upper larger petaloid and persistent. *Petals* 5-6, two-lobed, cuneate, flat, spreading.

J. L.







A. Hook. del.

Dus by S. Hilleb. 169. Pocahontas Jan. 1, 1826

S. Hilleb.



## FUCHSIA arborescens.

*Tree Fuchsia.*

## OCTANDRIA MONOGYNIA.

Nat. ord. ONAGRARIÆ.

FUCHSIA.—V. *suprà*, vol. 10. fol. 847.

*F. arborescens*; foliis bi-quaternatim verticillatis ovalibus acuminatis glaberrimis, thyrso terminali multifloro, petalis patentibus apiculatis, stigmate 4-fido radiato.

*F. arborescens.* Moçino and Sesséfl. *peruv. ined. secundum Cervantesium in litteris.* Bot. mag. 2620.

Frutex arborescens, erectus, ramosus; ramis teretibus; adultis cinereis cortice rimoso, novellis teneris, purpureis, glaberrimis. Folia opposita, vel 3-4-natim verticillata, ovalia, glaberrima, acuminata, versùs basin angustata, ad marginem minutissimè denticulata, petiolis semiteretibus purpureis. Thyrsus terminalis, multiflorus, fere aphyllus, ramulis teretibus ascendentibus. Bracteolæ minimæ, deciduæ. Calyx rubescens, tubo brevi infundibulari; limbo tubo longiore, 4-partito; laciniis oblongis, acuminatis, patentibus. Petala 4, calyce breviora, oblonga, apiculata, patentia, purpurea. Stamina petalis paulò breviora, inæqualia. Pollen album. Stigma staminibus paulò longius, 4-lobum; lobis patentibus, radiatis, obtusis.

Seeds of this superb species of *Fuchsia* were received in the spring of the year 1824 from Mexico, by various parties, and in all cases, we believe, under the name which we have adopted. The plant from which our drawing was made, blossomed in great perfection in the greenhouse of John Wrench, Esq., of Camberwell Terrace, in October last. We have since been favoured with beautiful specimens from the garden of Alexander Baring, Esq., at the Grange, where the plant grew with astonishing vigour, producing an abundance of bunches of the most lively pink, under the judicious management of Mr. Peter M'Arthur. With ordinary cultivation, the plant has appeared to be of little value, but the representation of it which accompanies this article shews to what perfection it

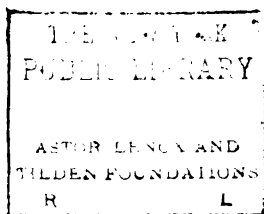
is capable of being brought by skilful and attentive cultivation. It is nearly hardy, flourishing most in a conservatory, where it may be just preserved from frost, and exposed to a free circulation of air. In a confined or overheated situation the flowers refuse to expand.

In general habit this species is so different from any other *Fuchsia* in our gardens, that, before it flowered, doubts were entertained of its really belonging to that genus. One ingenious gentleman, indeed, fancied he had discovered that it did not even belong to the same natural order, but was a species of *Lisianthus*. A glance at the other South American kinds, which have not yet been introduced, might have spared such unprofitable speculation.

The genus *Fuchsia* is capable of being advantageously divided into two distinct sections, of which *F. tenella* and *gracilis* may be considered the types of one, and this species and *F. lycioides* of the other.

An arborescent, erect, branched shrub, with round branches, of which the old ones are cinereous, with a cracked bark, the young ones of a bright, delicate purple. *Leaves* opposite, or whorled in threes or fours, oval, very smooth, acuminate, narrowed towards the base, very minutely toothletted at the edge; *petioles* half-round, purple. *Thyrse* terminal, many-flowered, nearly leafless, with round ascending branchlets. *Bracteolæ* very small, deciduous. *Calyx* pink, with a short funnel-shaped tube, and a limb which is longer than the tube, and 4-parted; with oblong, acuminate, spreading segments. *Petals* 4, shorter than the calyx, oblong, apiculate, spreading, purple. *Stamens* a little shorter than petals, unequal. *Pollen* white. *Stigma* a little longer than stamens, 4-lobed; lobes spreading, radiate, blunt.

J. L.





## KENNEDIA cordata.

*Large-leaved Kennedia.*

## DIADELPHIA DECANDRIA.

Nat. ord. LEGUMINOSÆ. Tribus V. Phaseoleæ Decand. prodr. 2.381.

KENNEDIA, Vent.—*Calyx* bilabiatus, labio superiore bidentato, inferiore trifido æquali. *Corolla* papilionacea, vexillo recurvo à carina non reflexo. *Stamina* diadelphea. *Stigma* obtusum. *Legumen* lineare compressum isthmis cellulosis transversè multiloculare. *Semina* strophilata.—Frutices *Novæ Hollandiæ*, volubiles. *Pedunculi* axillares. *Flores* rubri aut violacei: vexillo basi bimaculato. Dec. prodr. 2.383.

*K. cordata*; foliolis solitariis cordatis ovatis apiculatis petiolo subæqualibus, stipulis superioribus ovatis, racemis multifloris petiolo longioribus.

Rami volubiles, glabri, angulati. Foliola solitaria, cordata, ovata, apiculata, reticulata, glabra, petiolo non multum longiora; stipulæ ad basin petioli ovate acuminatæ, ad basin folioli ovate acutæ. Racemi axillares, multiflori, erecti, petiolis longiores, glaberrimi. Cætera *K. monophyllæ*.

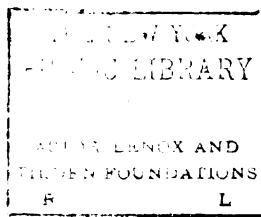
We do not scruple to distinguish this plant from *K. monophylla*, with which we have seen it confounded in some collections, and under the name of which our specimens were communicated from the garden of the Comtesse de Vandes, at Bayswater. The leaves are much broader, of different proportions, both with respect to themselves and to their footstalk, and acute with a little point. It is, doubtless, a native of N. Holland, and requires the same treatment as *K. monophylla*. Our drawing was made in April 1825.

While preparing this article for the press, the long-expected second part of M. De Candolle's *Prodromus* has reached us, in which we find *Kennedia* occupying a place among his tribe of Phaseoleæ, which are distinguished from other Leguminosæ with a curved embryo, by a polyspermous dehiscent pod, and leaves without tendrils, the first pair of which, after germination, is alternate; by this last character the tribe is separated from Viciæ.

The principal points which it has appeared to M. De Candolle advisable to consider, with regard to the distribution of Leguminosæ into natural tribes, are, 1. the state of the embryo as to the division of its radicle, which is either curved or straight; 2. the nature of the calyx, whether distinctly lobed or not; 3. the insertion of stamens, whether hypogynous or perigynous; 4. the nature of the corolla, whether papilionaceous or otherwise; 5. the æstivation of the corolla, whether imbricated or valvular; 6. the texture of the cotyledons, whether thick and fleshy, or thin and leafy; 7. the structure of the legumen; and, 8. the insertion of the first pair of leaves produced after germination, which are either alternate or opposite.

By the aid of these characters, he has divided the whole order into 11 tribes : viz. 1. *Sophoreæ*, 2. *Loteæ*, 3. *Hedysareæ*, 4. *Viciæ*, 5. *Phaseoleæ*, 6. *Dalbergiæ*, 7. *Swartziæ*, 8. *Mimoseæ*, 9. *Geoffrææ*, 10. *Cassiæ*, 11. *Detariæ*. Under these heads are arranged 282 genera, and about 3806 species.

A twining shrub, with smooth, angular *branches*. *Leaflets* large, solitary, cordate-ovate, apiculate, netted, smooth, not much longer than the petiole. *Stipules* at the base of the petiole ovate acuminate, at the base of the leaflet ovate acute. *Racemes* axillary, many-flowered, erect, longer than petiole, quite smooth. *Flowers* bright purple, very handsome.  
J. L.





*S. hort. del.*

*Publ. by J. B. Edwards 10/19*

*London 1826*

*J. W. Smith*



CLERODENDRON *lividum*.*Discoloured Clerodendron.*

## DIDYNAMIA ANGIOSPERMIA.

Nat. ord. VERBENACEÆ.

CLERODENDRON. *Suprà* vol. 5. fol. 406.

*C. lividum*; foliis oblongis dentatis utrinque acuminatis lividis: petiolo costâque tomentosis, calyce inflato pentagono, cymis tomentosis axillaribus foliis brevioribus.

Suffrutex *humilis, glaber, non lucidus, undique magis minùsve purpurascens*. Folia *petiolata, oblonga, acuminata, grossè dentata, versùs basin integra, petiolo costâque tomentosis*. Cymi *axillares, pedunculati, tomentosi, foliis multò breviores*. Calyx *coloratus, ovatus, acutus, inflatus, altè 5-partitus: laciniis marginibus applicitis angulos quinque formantibus*. Corolla *rubido-alba, hypocrateriformis, tubo recto, subinfundibulari, gracili, calycis longitudine, ad basin staminum hirsuto; limbo obliquo, reflexo, 5-partito: laciniis regularibus, ovatis, demùm revolutis, inferiore porrecto bilobo*. Stamina *subæqualia, corolla longiora, declinata, versùs medium tubi inserta, demùm utrinque gyratim retorta*. Antheræ *glabræ, sagittatæ, atro-brunnæ*. Stylus *filiformis, staminibus brevior*. Stigma *acutum, bifidum*. Ovarium *subrotundum, glabrum, 4-loculare: ovulis totidem ascendentibus*.

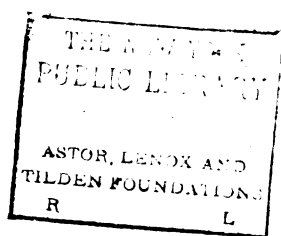
A new and remarkable species of *Clerodendron*, brought from China, for the Horticultural Society, in 1824, by Mr. J. D. Parkes. Our drawing was made at the Chiswick garden, in November of the same year.

This differs from all the species with which we were previously acquainted, in its dull, livid aspect, and inflated angular calyx, which increases in size with the growing fruit.

A low livid bush, almost entirely smooth, and destitute of a shining appearance, requiring the protection of a common greenhouse, where the largest plants we have yet seen have not exceeded 3 feet in height. The *leaves* are

stalked, oblong, acuminate, entire towards the base, with the petiole and midrib downy. *Cymes* axillary, stalked, downy, much shorter than leaves. *Calyx* coloured, ovate, acute, inflated, deeply 5-parted; the segments forming 5 angles with their united edges. *Corolla* white, a little stained with madder, hypocrateriform; tube straight, somewhat funnel-shaped, slender, length of calyx, at the base of the stamens hairy; limb oblique, reflexed, 5-parted, with regular, ovate, finally revolute segments, of which the lowermost is 2-lobed, and projecting. *Stamens* nearly equal, longer than corolla, declinate, inserted about the middle of the tube, finally curled back on each side. *Anthers* smooth, sagittate, dark brown. *Styles* filiform, shorter than stamens. *Stigma* acute, bifid. *Ovary* roundish, smooth, 4-celled; ovules 4 ascending.

J. L.





**ÆGIPHILA elata.***Tall Ægiphila.***TETRANDRIA MONOGYNIA.***Nat. ord.* VERBENACEÆ.

**ÆGIPHILA L.**—*Cal.* campanulatus 4-dentatus. *Cor.* 4-fida. *Stylus* bifidus filiformis. *Bacca* bilocularis; loculis 2-spermis. *Spreng. syst. veg.* 1.368.

*Æ. elata*; foliis elliptico-acuminatis membranaceis, paniculis terminalibus, calycibus pubescentibus. *Swartz prodr.* 31. *fl. ind. occ.* 1.254.

*Knoxia scandens.* *Browne jam.* 140. t. 3. f. 3.

*Æ. elata.* *Willd. sp. pl.* 1.616. *Römer and Schultes*, 3.102. *Spreng. syst. veg.* 1.422.

*Scandens.* Rami teretes, leviter pubescentes. Folia elliptica, utrinque acuminata, præsertim ad apicem, membranacea, glabra. Paniculæ terminales, corymbosæ, compactæ, pubescentes. Calyx serè integer, pubescens. Corolla calyce multò longior, flava, glabra: laciniis ovatis obtusis. Stamina exserta. Stylus staminibus brevior, bifidus.

Brought to the Comte de Vandes from St. Vincent's, in 1823, by Mr. James M'Crae. It was originally found climbing among thickets in Jamaica, by Dr. Patrick Browne, who called it *Knoxia*, and has given a good uncoloured figure of it in his *History of Jamaica*.

Our drawing was made in August 1824. The plant requires the heat of a stove, and may be increased without difficulty by cuttings.

J. L.

# EUCALYPTUS longifolia.

## *Long-leaved Eucalyptus.*

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ICOSANDRIA MONOGYNIA.

Nat. ord. MYRTACEÆ.

*EUCALYPTUS* L.—*Cal.* truncatus, in æstivatione calyptra caduca tectus. *Capsula* infera, 4 locularis, polysperma. *Spreng. syst. veg.* 2.473.

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*E. longifolia*; operculo hemisphærico submutico, foliis lineari-lanceolatis basi cuneatis subinæqualibus, umbellis paucifloris pedunculatis axillaribus.

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Our drawing of this species of *Eucalyptus* was made some months since, from a plant 7 feet high, in the conservatory of the Comtesse de Vandes, at Bayswater. No specimens having been preserved at the time, and the plant having subsequently perished, we are unable to offer any other description of the species than could be obtained from our figure.

The numerous species of *Eucalyptus* of which the forests of many parts of New Holland are chiefly composed, are almost unknown to the European world. Twenty-four only have been enumerated in the most recent botanical compilation which has been published, so that the public are waiting with impatience for the appearance of the 2d volume of Mr. Brown's *Prodromus*, from which alone is any really valuable account of the genus to be expected. In the meanwhile the subject of this article may stand as a distinct species, differing from *E. viminalis* in the form of its operculum, in the nature of its inflorescence, and in the greater breadth of its leaves; from *E. amygdalina* in the two latter characters, and from *E. obliqua* chiefly in the form of its leaves. *E. resinifera*, under which name we are told this plant was purchased by the Comte de Vandes, is quite a different thing, with a long rostrate operculum.

J. L.



*U. Fl. 184*

*Pl. by S. C. Purpus, 1848. G. R. 1848. 1020. S. W. 1848.*





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Nov. 10. *Gen. sp. n. (Gentiana)* 700 *Fl. Indica* 1926. *W. W.*

## LIATRIS intermedia.

### *Dwarf-branched Liatris.*

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#### SYNGENESIA *ÆQUALIS*.

Nat. ord. COMPOSITÆ. Vernoniæ Cassini.

LIATRIS.—*Suprà*, fol. 590.

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Div. I. *Spicatæ v. racemosæ; bulbosæ.*

*L. intermedia*; caule humili paniculato pilosiusculo, foliis longis linearibus scabriusculis marginatis, involucris turbinatis multifloris: foliolis exterioribus rigidis acutis subfoliaceis appressis, pedunculis foliosis.

Radix *tuberosus*. Caulis  $1\frac{1}{2}$  *pedalis, paniculatus, angulatus, pilosiusculus, subcorymbosus*. Folia *inferiora graminea, glabra, marginata, tactu scabriuscula, obsoletè trinervia; superiora breviora*. Involucra *terminalia in apices ramulorum, turbinata, multiflora, foliolis imbricatis, acutis, interioribus membranaceis, exterioribus majoribus, sub-foliaceis, pungentibus, ciliatis, non squarrosis*. Flosculi *sub lente forti sericosi*. Ovarium *obovatum, striatum, pilosum*. Pappus *pulcherrimè plumosus*.

---

We know of no genus of garden plants which stands in need of such thorough reformation as *Liatris*, or which would so well repay an acute observer for his attention. The species are all of great beauty; they are easily cultivated, and preserved without difficulty, if taken out of the ground in the autumn, and kept in pots in frames during the winter; and they are in a state of extraordinary confusion as to characters and synonyms. The specific definitions of American botanists appear to have been formed with reference to the species in a state of nature only: to cultivated plants they are, almost without exception, inapplicable.

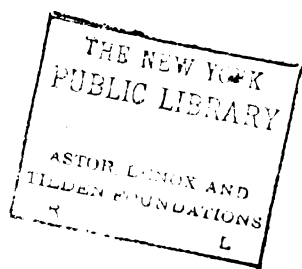
It is impossible but the plant before us must be known to native writers upon the American Flora, as it is far from uncommon in Canada, whence we have dried specimens, collected by Mr. Goldie, and whence the roots which pro-

duced the present plant were brought to the Horticultural Society, by Mr. David Douglas, in 1824. Perhaps it has been confounded with either *L. scariosa* or *squarrosa*, from both which it is certainly distinguished by its humble growth and long narrow leaves. From *L. scariosa* it differs in its dwarf panicked stem and turbinate involucre, with acute pungent leaflets; from *L. squarrosa*, also, in the form of its involucre, in the totally different disposition of the leaflets of that part, and in an abundance of other particulars. To the various spiked species from *L. macrostachya*, to the elegant *L. sphæroidea*, it bears very little resemblance. *L. gracilis* of Pursh, said to be a variety of *L. pilosa*, which we cannot believe, has small round heads of flowers, with blunt leaflets, and not turbinate heads with pungent leaflets.

A hardy, perennial plant, flowering in August and September. Our drawing was made in the Chiswick garden, in 1824.

*Root* tuberous. *Stem* 1 to 1½ foot high, panicked, angular, a little hairy, somewhat corymbose. *Lower leaves* grassy, smooth, hard-edged, roughish to the touch, obsolete 3-nerved; upper are shorter. *Involucres* terminal, at the end of the branchlets, turbinate, many-flowered; leaflets imbricated acute: inner membranous; outer larger, somewhat leafy, pungent, ciliated, not squarrose. *Florets* under a magnifying glass very slightly silky. *Ovarium* obovate, striated, hairy. *Pappus* beautifully feathery.

J. L.





*Irish Flag Iris*

*See by Macgregor 1894 Macgregor's Iris 111*

*111*

## MORÆA Herberti.

*Mr. George Herbert's Moræa.*

## TRIANDRIA MONOGYNIA.

Nat. ord. IRIDEÆ.

MORÆA.—*Suprà*, vol. 4. fol. 312.

*M. Herberti*; foliis linearibus acuminatis plicatis scapo brevioribus, scapo ramoso terete multifloro: ramis fasciculatis, spathis inflatis flore multò brevioribus, sepalis interioribus medio abruptè incurvo-revolutis quàm exteriora minoribus imberbibus.

*Tigridia Herbertiana*. *W. Herbert in bot. mag.* t. 2599.

Oss. *M. gladioloidi Kunthii* quàm maximè affinis.

Herba bulbosa: bulbo vestigiis foliorum tecto. Folia linearia, acuminata, biplicata, angulis plicarum alatis, lætè virides, pedales vel circa. Scapus erectus, 2-3 pedalis, flexuosus, teres, glaucus, ramosus, multiflorus. Flores magni, luteo-aurantiaci, inodori, brevi spatio flaccidi. Perianthium basi campanulatum: laciniis exterioribus oblongo-spatulatis, patentibus, planis, tortis, apice caudatis, per axin purpuratis, basi semidiaphanis, pallidis, purpureo lineatis; interioribus nanis, erecto-patentibus limbo revolutis, apice obtuso, medio concavo pallido, utrinque purpureo crebrè penicillato.; ungue plano, semidiaphano, purpureo striato. Filamenta in stipite brevi carnosio connata, sepalis majoribus et stigmatibus opposita; antheræ 3, erectæ, hastatæ, stigmatibus breviores, loculis purpureis. Ovarium inferum. Stigmata tria, bifida, medio bidentato elevato.

This subject was originally supplied for the use of the Botanical Register, from the garden of the late Honourable and Reverend George Herbert, after which lamented gentleman it was then named by the writer of the present article. Some unavoidable delay having occurred in the preparation of our figure for the press, the plant has in the mean while been published in the Botanical Magazine. The difficulty of avoiding repetitions of this kind in contemporary periodical publications is too obvious to require explanation. With ourselves, however, they are always a subject of regret, because they are seldom advantageous

to the public. In the present instance we are fortunately relieved from responsibility on the ground of unnecessary repetition, both from the circumstances we have alluded to, and from the necessity of making an indispensable alteration in the name which has been published in the Botanical Magazine.

We beg to declare our perfect innocence of referring this plant to *Tigridia*, to which we think it bears as little affinity as from its belonging to the same Natural Order it well can bear. In the colour of its flower, indeed, and in the general appearance of the foliage, a resemblance may be easily observed with *Tigridia*, but in all the essential parts of fructification the differences are so great as to place the two plants in different tribes of the same order. There can be no doubt that it is a genuine species of *Moræa*, a genus well distinguished from the *Cipura* of Aublet, or *Marica* of our gardens, by the stamens being opposite the stigmas, and not alternate with them. From *Iris*, indeed, *Moræa* scarcely differs, as Mr. Ker has long ago shewn, except in having bulbous roots, a natural character in which it agrees with *Tigridia*. We scarcely need remark, that the latter is at once distinguished from *Moræa* by its stamens, which are united in a long column, by its bifid, slender, convolute stigmas, and sagittate sepals.

*Moræa gladioloides* of M. Kunth is the most nearly related to this, but appears distinct in the solitary branches of its inflorescence. It is found in a much hotter country, near Caxamarca, a city of Upper Peru, more than 25 geographical degrees to the north of the station of our species.

A native of the temperate regions of South America, and probably hardy enough to thrive very well in a greenhouse. For ourselves, we have only seen it cultivated in a stove. It was originally imported from Buenos Ayres, by the Right Honourable the Earl of Caernarvon. Mr. W. Herbert informs us he has raised it from Brazilian seeds; and we possess fine specimens collected by our friend Dr. John Gillies, on the high ground about Mendoza, in Chili. Our native specimens are far more luxuriant than any we have seen in cultivation.

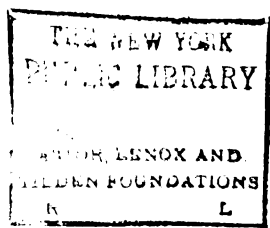
A bulbous-rooted plant; its bulb covered with the remains of the leaves. *Leaves* linear, acuminate, twice



plaited, the angles of the plaits being winged; bright green, about a foot long, or thereabouts. *Scape* erect, 2-3 feet high, flexuose, round, glaucous, branched, many-flowered. *Flowers* large, yellowish orange-coloured, scentless, soon withering. *Perianth* campanulate at base; the outer segments oblong, spatulate, spreading, flat, twisted, caudate at the point, with a purple line in the axis, at the base half-transparent, pale, and streaked with purple lines; inner much smaller, erect-spreading, with a revolute limb, which is obtuse at the end, concave and pale in the middle, and closely pencilled with purple on each side; its claw flat, half-transparent, streaked with purple. *Filaments* adhering in a short, fleshy stalk, placed opposite to the larger sepals and the stigmas; *anthers* 3, erect, hastate, shorter than stigmas, with purple cells. *Ovarium* inferior. *Stigmas* 3, bifid, with a two-toothed and elevated centre.

J. L.







W. Fendler

For the P. Williams 1862. Dr. J. W. Fendler

J. W. Fendler

## HETEROPTERIS nitida; var. $\beta$ .

*Shining Heteropteris, with brown leaves.*

### DECANDRIA TRIGYNIA.

Nat. ord. MALPIGHIACEÆ. Trib. III. Banisteriæ D. C.

**HETEROPTERIS**, Kunth. Omnia Banisteriæ, sed styli minus apice dilatati, et Carpellorum alæ deorsum (ut in Acere) nec supernè incrassatæ. Dec. prodr. 1.591.

H. nitida; foliis ellipticis acuminatis supernè subsinuatis, suprâ nitidis, petiolis eglandulosi, paniculâ terminali foliosâ.

α; argentea, foliis subtus argenteis.

Banisteria nitida. Lamarck encycl. 1.364. Cav. diss. 9. p. 422. t. 244. Willd. sp. pl. 2.740.

H. nitida. Kunth. in H. et B. nov. gen. et. sp. pl. 5.163. Dec. prodr. 1.592.

β; aurea, foliis subtus aureis.

Rami teretes, corrugati, verrucis crebris parvis albis scabri. Folia elliptica, utrinque acuta, margine subsinuata, suprâ glabra, infrâ tomento aureo sericea. Petioli ½-teretes eglandulosi. Corymbi terminales et axillares, pedunculati, foliosi, paniculati, tomento rufo velutini: ramulis compressis. Flores lutei, speciosi. Calyx 5-partitus; foliolo quoque basi biglanduloso. Stamina sericea. Styli tres, tenues, glabri.

For this plant we are indebted to Mr. John Lee, of the Hammersmith Nursery, where our drawing was made in July 1825. A tender stove shrub, native of the Brazils, and a beautiful ornament to a collection, for the sake both of its foliage and flowers.

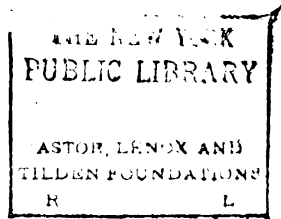
We do not find that it differs from the Banisteria nitida of Cavanilles in any other respect than in the colour of the under surface of the leaves, which is stated to be silvery in that plant, but which is of a bright golden-brown in this. Their inflorescence is alike, the outline of their leaves, especially in the sinuate margin, perfectly agrees, and they are both distinguished from Heteropteris chrysophylla by the absence

of glands from their petioles ; the latter plant has also small vermilion-coloured flowers, and an entirely distinct kind of inflorescence.

The present is the first representation of the plant in a flowering state ; the figure of Cavanilles is uncoloured, and was taken from a dried specimen in fruit.

*Branches* round, wrinkled, rough with numerous little scattered white warts. *Leaves* elliptical, acute at each end, somewhat sinuated at edge, smooth above, silky beneath, with gold-coloured down. *Petioles* half-round, without glands. *Corymbs* terminal and axillary, stalked, leafy, panicled, velvety, with a brown down ; *branchlets* compressed. *Flowers* yellow, showy. *Calyx* 5-parted ; each leaflet with two glands at the base. *Stamens* silky. *Styles* 3, slender, smooth.

J. L.





*Pl. Ind. Ind.*

*India, P. Bengalee, 12. P. Ind. Ind. 1825*

*C. H. B. K.*



## HOYA pallida.

*Pale-flowered Hoya.*

## PENTANDRIA DIGYNIA.

Nat. ord. ASCLEPIADEÆ.

HOYA, R. Br.—*Massæ pollinis* læves, 10, erecto-conniventes. *Antheræ* membranâ terminatæ. *Corona* staminea 5-phylla, foliolis depressis, angulo interiore producto in dentem antheræ incumbentem. *Cor.* rotata. *Brown in Hort. Kew.* 2.84.

*H. pallida*; foliis ovato-lanceolatis acuminatis carnosissimis venosis, umbellâ hemisphæricâ compactâ.

OBS. *Hoya carnosa* differt, præter characteribus suprâ datis, colore foliorum multò intensiore, floribus rubicundis odoratoribus, laciniis corollæ acutioribus.

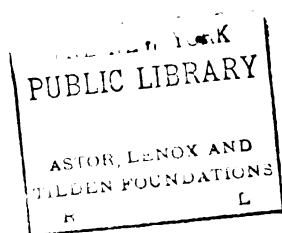
This new species of *Hoya* has been known for a long time to exist in collections, but we believe that the specimen from which our drawing was made, was the first flowering branch that had been produced. It was communicated to us in July 1825, by His Grace the Duke of Northumberland, from his noble garden at Sion House.

From *Hoya carnosa*, and all its seedling varieties, *H. pallida* may be readily distinguished by the pallid hue which pervades every part; an absence of colouring which extends even into the flowers. The latter are less fragrant, and their segments are less acute than those of *H. carnosa*.

A hothouse climber, of the easiest culture.

J. L.







*Smilax* L. f. *Did. by Schimper, in Engler's Bot. Jahrb.* 1886.

*Smilax* L.

## HALESIA parviflora.

*Small-flowered Halesia.*

## DODECANDRIA MONOGYNIA.

Nat. ord. STYRACEÆ.

**HALESIA**, Ellis.—*Calyx* minimus, 4-dentatus. *Corolla* magna, campanulato-veptricosa, ore sub 4-loba. *Stamina* 12-16, filamentis basi in tubum connatis et corollæ adnatis; antheræ oblongæ, erectæ. *Germe* inferum. *Stylus* 1. *Stigma* 1. *Nux* corticata, oblonga, 4-gona, angulis alatis, stylo persistente acuminata, 4-locularis, 4-sperma; loculis 2-3, sæpè abortivis.—Frutices; *pedunculi* plures, axillares, uniflori. *Fructus* ala in *H. tetraptera* æquales, in *H. diptera* 2 oppositæ cæteris minores. Juss. gen. 165.

*H. parviflora*; foliis ovato-oblongis acutis subintegris utrinque pubescentibus subtus glaucis, racemis foliosis paniculatis, dentibus calycinis ovatis, stylo inclusis, floribus octandris.

*H. parviflora* Michaux, fl. bor. am. 2.40. Pursh. am. sept. 2,450. Nuttall. gen. am. 2.83.

Rami adulti leves, brunnei, juniores pubescentes. Folia ovato-oblonga, breviter acuminata, utrinque pubescentia, supra viridia, subtus glauca, juniora integra; adulta subdenticulata. Flores albi, quàm *H. tetraptera* paulò minores, in racemis subcompositis pendulis dispositi, cum foliis coteranei. Calyx obovatus, tomentosus, 4-dentatus, dentibus ovatis acutis. Petala rugosa, tomentosa, obovata, obtusa, æstivatione imbricata. Stamina 8, petalorum longitudine. Filamenta pilosa, Stylus inclusus.

This rare plant was most kindly communicated to us in May last by the Dowager Countess of Aylesford, from her collection at Stanmore, where, her ladyship informs us, it has existed for fifteen or twenty years, without producing flowers, until the specimen now represented made its appearance. It was sent to Lady Aylesford with the name of *Halesia diptera*; an obscure plant, respecting which we have a few remarks to offer.

Under the article *Halesia* in Rees's Cyclopædia, we find the following note by Sir James Edward Smith:

“ The first botanists in this country were always in doubt concerning *Halesia diptera*, and the herbarium of Linnæus, when it arrived, was anxiously consulted upon this subject, but proved to contain nothing certain except the fruit, the leaves pasted by it being full-grown *Styrax grandifolium*.”

It therefore appears, that as far as Linnæus is concerned, little hope is to be entertained of ascertaining from his writings what he intended by *H. diptera*.

Willdenow, however, was acquainted with a plant which he considered referable to *H. diptera*, and which was cultivated in the Berlin Garden. This plant he describes as having leaves green on each side, twice as large as those of *H. tetraptera*, and very soft, with minute hairs on the under side. Pursh adopts the definition and account of Willdenow, only adding that the flowers are larger than in *H. tetraptera*. Nuttall makes no remark upon either Willdenow or Pursh, but observes, that the species is found occasionally round Savannah, in Georgia.

It is evident, then, that these writers, who, as we have seen, are the only modern authority for *H. diptera*, could not have intended to describe the present plant, which has leaves no larger than those of *H. tetraptera*, and glaucous beneath; and flowers not only smaller than in that species, but having a different mode of inflorescence, an included style, and large ovate teeth to the calyx; all of which latter characters would necessarily have been remarked by such acute observers.

The *H. parviflora* to which it appears to us that the present plant is referable, is a species unknown to Pursh, who only adopts it from Michaux, and said by Nuttall to be scarcely distinct from *H. tetraptera*.

That from the latter our plant is very different, an inspection of our figure will render obvious. The leaves are, when young, entire, or nearly so, becoming toothed only as they grow old, and not being regularly denticulate in their earliest state as in *H. tetraptera*. The flowers are produced at the same time as the leaves, and appear in loose leafy pendulous paniced racemes, not in naked fascicles; the calyx has four ovate teeth, which in

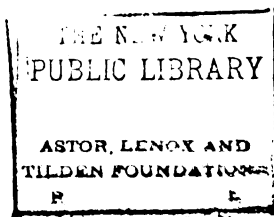
*H. tetraptera* are almost obsolete as in *Styrax*. Besides these points of difference, while *H. tetraptera* produces an abundance of blossoms continually, even upon plants a foot high, the present species scarcely flowers under any circumstances.

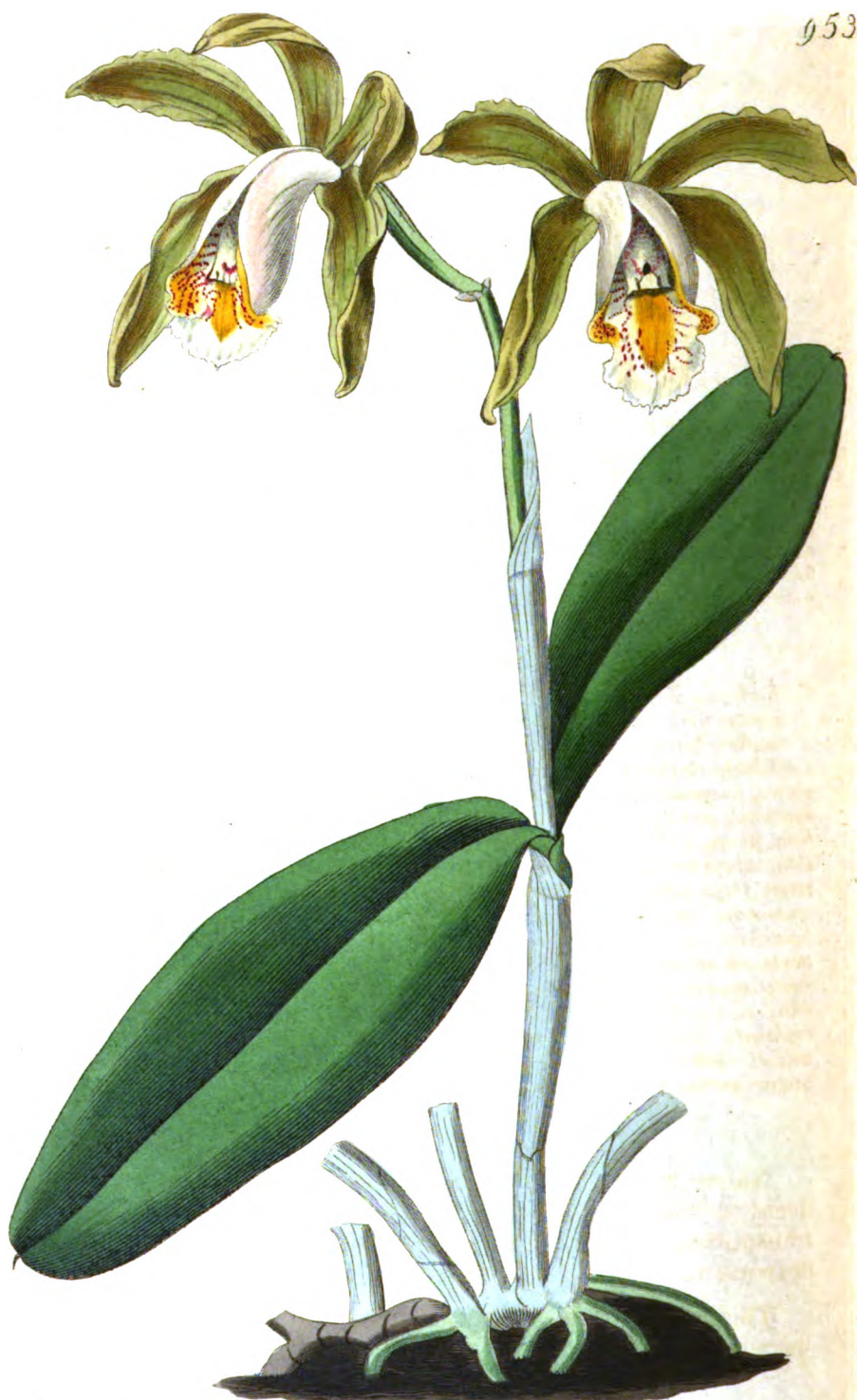
A hardy shrub, with the old branches smooth and brown, and the young branches downy. *Leaves* ovate oblong, with a short point, downy on each side, green above, glaucous beneath; the young ones entire, the full grown ones toothletted. *Flowers* whitish, a little smaller than in *H. tetraptera*, disposed in somewhat compound pendulous racemes, appearing at the same time as the leaves. *Calyx* obovate, downy, 4-toothed, with ovate acute teeth. *Petals* rugose, downy, obovate, obtuse, in estivation imbricated. *Stamens* 8, the length of petals. *Filaments* hairy. *Style* included.

J. L.









*C. pubescens*

*Pub. by J. C. Gray, 1839, Philadelphia, Feb. 1, 1826.*

*J. W. W. 1839*

## CATTLEYA Forbesii.

*Forbes's Yellow Cattleya.*

## GYNANDRIA MONANDRIA.

*Nat. ord. ORCHIDÆ. Tribus VI. Epidendræ Lindl. Coll. Botanica in Append.*

*CATTLEYA* Lindl. — *Perianthium* resupinatum patens: laciniis subæqualibus. *Columna* libera, semiteres, labello eroso cucullato amplexa. *Anthera* infra-apicularis, oprecularis, persistens, columnæ apice subulato supertecta, 4-locularis; septis completis membranaceis marginatis. *Massæ pollinis* 4, lenticulares, per pares filo elastico granulato in ipsis reflexo connexæ. — *Herbæ parasiticæ* (Americæ æquinoctialis); *bulbis fasciculatis*; *foliis solitariis, carnosis, enervibus*; *floribus terminalibus, geminis, grandibus, subodoris*. Lindl. l. c. tab. 33.

*C. Forbesii*; foliis oblongis obtusis planis, sepalis lanceolatis subæqualibus; interioribus angustioribus undulatis obtusis, labelli trilobi lobo medio cordato lunato argutè dentato apice saccato. Lindl. l. c.

*Planta epiphyta, è caudice tortuoso, cicatrizzato, repente, promens caules plures, unipedales, teretes, sursum clavatos, vestigiis membranaceis arcuè appressis, striatis, albidis, internodiis longioribus vestitos. Folia in fastigio, bina, plana, coriacea, sessilia, ad marginem scabrella, enervia, ovali-lanceolata, subopposita, obtusa, cum apiculo. Flores bini, inodori cum pedunculo terete foliis longiores. Bractea parva, non spathacea, sphacelata, rigida, acuminata, vaginans, pedunculo multò brevior. Perianthii laciniæ lineari-lanceolatae, acutæ, extùs luteo-fuscae, intùs ochraceo-virides; interiores angustiores, ad marginem crispæ. Labellum pallidissimè flavidum, intùs luteum, rubro venosum et punctatum, ad apicem trilobum; lobis lateralibus rotundatis, porrectis, basi interiore sub-cordatis; intermedio cordato, rotundato, explanato, crispo, argutè dentato, apice saccato. Labellum per axin lineis duabus elevatis. Columna inclusa, pallidè ochroleuca, purpureo lineata. Stigma purpureo marginatum.*

Native of Rio Janeiro, where it was found growing upon decayed trees, by the late Mr. Forbes, by whom it was transmitted to the Horticultural Society in 1823. Our drawing was made in the Chiswick Garden, in June 1824.

The genus *Cattleya* now contains four well-ascertained species, of which this is the least beautiful. They are all

elegant epiphytes, growing among the decayed vegetable matter found upon trees. If planted in a similar substance, and kept in a hot damp stove, they may be easily subjected to cultivation. They are all, however, at present, exceedingly rare plants. *Cattleya Loddigesii*, which is now the commonest, only exists in a few collections; of *C. labiata*, which is the finest, we are acquainted with but two plants, both in the possession of Mr. Cattley. The present species is in no other collection than that of the Horticultural Society, where there is but one certain plant. A single individual of *C. citrina* is also supposed to exist in the latter establishment, but it has not yet blossomed.

It will have been remarked by our readers, that we have for some time been endeavouring to establish divisions in the extensive tribe of Orchideæ, comprising the last section in Mr. Brown's system, and commonly called Epidendrums. Indeed, so long since as the year 1820, we remarked (Coll. Bot. t. 15.) that the parasitical Orchideæ, with waxy pollen-masses, were capable of being separated into at least two divisions, distinguished by certain peculiar and important modifications of the pollen-masses and their appendages. Having at length, in another publication, applied these principles to all the Orchideous plants of which we have any satisfactory information, we think a brief exposition of their final arrangement may not be unacceptable to the readers of the Botanical Register, especially as the work of which we speak is in the hands of but few persons.

The Orchideous plants with waxy pollen are susceptible of the three following modifications of that substance. In the first state the pollen-masses are seated upon a transparent, generally elastic, body, adhering to the upper edge of the stigma by a gland. The elastic body has been named by Richard *caudicula*, and answers to the extensile pedicel of the common *Orchis*, and to the filamentous axis of *Neottieæ*. The nature of the gland is more doubtful; but it exists in several tribes of Orchideæ, the pollen of which is not waxy. Plants so characterised we term *Vandææ*. The second form of pollen-mass consists in the absence of the gland, and in the *caudicula* being divided into two or four filiform segments, covered with pollen not in a state of cohesion, and folded back over the

margins of the pollen-masses in such a way as to be interposed between them and the Clinandrium, or Bed of the Anther. These constitute true *Epidendreae*. The third state of the pollen-masses depends upon the total absence of both caudicula and gland. Pollen of this nature may be considered to vary the most from the general structure which obtains in Orchideæ, and to differ from ordinary pollen only in the intimate cohesion of all the granules. Plants with this character are called *Malaxideæ*.

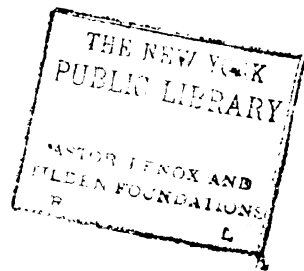
The following is the general arrangement of Orchideæ which has been proposed in the work above mentioned :—

1. §. *Neottieæ*. Pollen simplex v. è granulis laxè cohærentibus.  
     Tribus I. NEOTTIEÆ. Anthera stigmatè parallela erecta.  
     Tribus II. ARETHUSEÆ. Anthera terminalis opercularis.
2. §. *Orchideæ*. Pollen in granulis demùm cereaceis numero indefinitis cohærens.  
     Tribus III. GASTRODIEÆ. Anthera terminalis opercularis.  
     Tribus IV. OPHRYDEÆ. Anthera terminalis erecta v. inversa. Pollinia caudiculata.
3. §. *Epidendreae*. Pollen in granis demùm cereaceis numero definitis cohærens.  
     Tribus V. VANDEÆ. Pollinia caudiculâ diaphanâ v. glandulâ stigmati affixa.  
     Tribus VI. EPIDENDREE. Pollinia caudiculis filiformibus pulvereis replicatis stigmati affixa.  
     Tribus VII. MALAXIDEÆ. Pollinia libera; nunc ad apicem materie viscidâ v. pulvereâ aut granulosâ cohærentia.
4. §. *Cypripediæ*. Antheræ laterales fertiles: intermediâ sterili petaloideâ.  
     Tribus VIII. CYPRIPEDEÆ.

Obs. *Affinitas* ORDINIS summa cum Scitamineis per Neottieas; inferior magisque obscura cum Asphodeleis per Thelymitram et Junceis per Malaxideas.

J. L.









## BRUNSVIGIA minor.

*Small Brunsvigia.*

HEXANDRIA MONOGYNIA.

Nat. ord. AMARYLLIDÆÆ.

BRUNSVIGIA. *Suprà*, vol. 3. fol. 192, 193.

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*B. minor*; foliis 3-4 oblongis humifusis scapo brevioribus, scapo radiis umbellæ longiore, spathâ erectâ carnosâ, perianthiis 6-partitis.

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For this beautiful little species of *Brunsvigia* we are indebted to James H. Slater, Esq., of Newick Park, a gentleman whose valuable communications have often been gratefully acknowledged in this publication.

We were at first disposed to esteem it a variety of *Amaryllis laticoma*, figured at fol. 497 of this work, but upon further consideration, and aided by the intelligent notes of Mr. Slater, we are now satisfied of their differences.

Mr. Slater thus points out the characters by which *B. minor* is essentially distinguished: "The flower-stem of my plant rises long before the leaves, that of *A. Laticoma*, when they are full grown. The spathe of my plant is fleshy, *peculiarly thick*, and continued fresh and erect until the flowers died off; in *A. Laticoma* this is not the case. The leaves of *A. Laticoma* are described as 18 inches long, by two-thirds of an inch broad. The leaves of my plant are rather broad for their length; perhaps 6 inches long, by rather more than 1 inch wide. Those of *A. L.* rise from the neck of the bulb, and are described as falcate; those of my plant fall directly, and cling round the edge of the pot; in their growth, as well as in their shape, very much resembling the leaves of *B. Multiflora*. The germen of my plant very much resembled, in its early state, the germen of *B. Josephinæ*; that of *A. Laticoma*, by the figure,

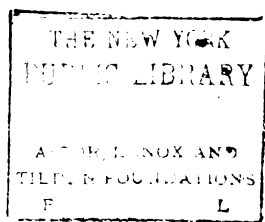
appears more like the germen of *A. fothergillia*. The peduncles of *A. L.* are described as peculiarly thick, which in my plant, I think, was not the case. There is so much resemblance between my plant and *B. Multiflora*, that it occurred to me, from the very first, that it must be a *Brunsvigia*. Perhaps I might more correctly have compared its germen with that of *B. Multiflora* than *B. Josephinæ*, but not having seen the *B. M.* in flower, I did not venture to do so. I have that plant now shewing bud, and the spatha also appears to be very fleshy."

The leaves in our figure are represented differently from their description in the above memorandum; but Mr. Slater observes, that the manner of growth mentioned by him is that which is natural to the plant, and such as it was the year before the flower-stem appeared.

This plant is, we suppose, what is meant in the Botanical Magazine, tab. 2578, by a sixth small species of *Brunsvigia*, imported by the late Mr. Lee under the erroneous name of *Cyrtanthus ventricosus*, and not yet (June 1825) observed in flower.

A native of the Cape of Good Hope, and requiring the same mode of treatment as other Cape *Amaryllidæ*.

J. L.





*Mimulus lewisii*

*Mimulus lewisii* (L.) Pursh. - 1813

*Mimulus lewisii*

# RUELLIA persicifolia.

## *Peach-leaved Ruellia.*

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DIDYNAMIA ANGIOSPERMIA.

Nat. ord. ACANTHACEÆ.

RUELLIA. *Suprà*, vol. 7. fol. 585.

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R. *persicifolia*; foliis ovato-lanceolatis longè acuminatis serratis glabris, floribus axillaribus corymbosis, corollis venosis pilosiusculis: lobis crispis rotundatis emarginatis, caule angulato glaberrimo ad nodos tumido.

Herba pedalis; caule glabro, angulato, ad nodos tumido. Folia opposita, quasi alterna, ob folium unicum semper nanum, brevi-petiolata, ovato-lanceolata, longè acuminata, serrata, glaberrima, utrinque conspicuè venosa. Flores in corymbis compositis dispositi, ex axillis foliorum inferiorum deciduorum provenientes. Bracteæ imbricatæ, ovatæ, acutæ, glabræ. Corolla magna, infundibularis, extùs leviter pilosa, latè cærulea, venis intensioribus pulcherrimè picta; limbo patente, 5-loba; lobis rotundatis, crispis, emarginatis, inæqualibus.

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This beautiful *Ruellia* has been lately introduced from the Botanic Garden, Calcutta, by Mrs. Fairlie. Our drawing was made at Mr. Colvill's Nursery in September.

An elegant little plant, less than a foot high, with a smooth angular stem, which is tumid at the joints. *Leaves* opposite, appearing alternate from the regular dwarfing of one leaf, on short foot-stalks, ovate-lanceolate, with very long points, serrated, quite smooth, strongly marked with veins on either side. *Flowers* in compound corymbs from the axillæ of the lowest leaves, which are usually deciduous. *Bracteæ* imbricated, ovate, acute, smooth. *Corollas* large, infundibuliform, slightly downy on the outside, bright blue, beautifully marked with darker veins; limb spreading, 5-lobed, with rounded, crisp, emarginate unequal lobes.

J. L.



# GENERAL ALPHABETICAL INDEX

TO

## THE PRESENT AND PRECEDING VOLUMES.

N. *The names in Italics are such as have been altered subsequently to their publication, for others referred to in one or other of the Appendices to the several volumes of this work.*

<i>Volumen.</i>	<i>Folium.</i>	<i>Volumen.</i>	<i>Folium.</i>
Adroma augusta, v. 6	518	Amaryllis insignis, v. 7	579
Acacia alata, v. 5	396	<i>Amaryllis ignea</i> , v. 10	809
Acacia calamifolia, v. 10	839	Amaryllis advena, v. 10	849
Acacia undulata, v. 10	843	Amaryllis laticoma, v. 6. 497; <i>et in append. ejusd. vol.</i>	
Acacia decurrens; $\beta$ . v. 5	371	Amaryllis longifolia; $\alpha$ . v. 7	546
Acacia diffusa, v. 8	634	Amaryllis longifolia; $\gamma$ . v. 4	303
Acacia Houstoni, v. 2	98	Amaryllis maranensis, v. 9	719
Acacia Lambertiana, v. 9	721	Amaryllis palliata, v. 3	199
Acacia longifolia, v. 5	362	Amaryllis purpurea; $\beta$ . v. 7	552
Acacia longissima, v. 8	690	Amaryllis radiata, v. 7	596
Acacia lophantha, v. 5	351	Amaryllis reticulata; $\beta$ . v. 5	352
Acacia sulcata, v. 11	928	Amaryllis revoluta; A. v. 8	623
Acacia vestita, v. 9	698	Amaryllis revoluta; B. v. 8	615
Achania mollis; $\alpha$ . v. 1	11	Amaryllis rutila, v. 1	23
Acrostichum alicorne, v. 3	262, 263	Amaryllis solandriiflora; $\beta$ . v. 11	876
Actinotus Helianthi, v. 8	654	Amellus Lychnitis, v. 7	586
Egiphila elata, v. 11	946	Ammyrsine buxifolia, v. 7	531
Aeranthus grandiflora, v. 10	817	Amomum maximum, v. 11	929
Aeranthus arachnitis, v. 10, <i>in textu</i>	817	Amorpha fruticosa, v. 5	427
Aeranthus sesquipedalis, v. 10, <i>in textu</i>	817	Amsonia latifolia, v. 2	161
<i>Aerides paniculatum</i> , v. 3. 220; <i>et in append. vol. 6.</i>		Anchusa italica, v. 6	463
Æsculus discolor, v. 4	310	Andromeda floribunda, v. 10	807
Agapanthus umbellatus; $\gamma$ . v. 9	699	Anellema sinicum, v. 8	659
Albica fastigiata, v. 4	277	Anemone palmata, v. 3	900
Albica filifolia, v. 7	557	Angelonia salicariifolia, v. 5. 415; <i>et app. ejusd. vol.</i>	
Albica fugax, v. 4	311	Angræcum maculatum, v. 8. 618; <i>et in append.</i>	
Allium Cowani, v. 9	758	Antennaria contorta; <i>mas.</i> v. 7	605
Allium fragrans; $\beta$ . v. 11	898	Anthemis apifolia, v. 7	587
Alpinia calcarata, v. 3	141	Anthericum canaliculatum, v. 11	877
Alpinia malaccensis, v. 4. 398; <i>et in append. ejusd. vol.</i>		Anthericum pomeridianum, v. 7	564
Alpinia tubulata, v. 9	777	Anthocercis litorea, v. 3	212
Alstromeria Flos Martini, v. 9	731	Aquilegia atropurpurea, v. 11	922
Amaryllis acuminata, v. 7	634	Arbutus Andrachne, v. 2	113
Amaryllis aulica, v. 6. 444; <i>et tab. in app. ejusd. vol.</i>		Arbutus hybrida, v. 8	619
Amaryllis aurea, v. 8	611	Arctopus echinatus, v. 9	705
Amaryllis australasica, v. 5	426	Arctotis acaulis, v. 2	122
Amaryllis Belladonna; $\beta$ . pallida, v. 9	714	Arctotis aspera, v. 1	34
Amaryllis calyptrata, v. 2. 164; <i>et in append. ejusd. vol.</i>		Arctotis aureola, v. 1	32
Amaryllis candida, v. 9	734	Arctotis maculata, v. 2	130
Amaryllis coranica, v. 2	139	Arctotis tricolor, v. 2	131
Amaryllis crocata, v. 1	38	Ardisia lentiginosa, v. 7	533
Amaryllis equestris; $\beta$ . v. 3	234	Ardisia paniculata, v. 8	638
Amaryllis flexuosa, v. 2	172	Ardisia punctata, v. 10	827
Amaryllis fulgida, v. 3	226	Argyrea cuneata, v. 8	661
<i>Amaryllis hyacinthia</i> , v. 2. 163; <i>et in vol. 6. fol. 444 ad calem fol. vers.</i>		Aristolochia labiosa, v. 8	689
		Arum crinitum, v. 10	831
		Arum Dracontium, v. 8	662

# GENERAL INDEX TO THE PRESENT AND PRECEDING VOLUMES.

Volumen.	Folium.
Arum orizense, v. 6	450
Arum tenellifolium, v. 6	519
Artabotrys odoratissimus, v. 5	423
Arthropodium cirrhatum, v. 9	709
Arthropodium minus, v. 10	866
Asclepias curassavica, v. 1	81
Asclepias incarnata, v. 3	250
Asclepias tuberosa; <i>α</i> . v. 1	76
Aspidistra lurida, v. 8	638
Astelma eximium, v. 7. 532; <i>et in append. ejusd. vol.</i>	
Astelma fruticans, v. 9	736
Aster Amellus, v. 4	340
Aster grandiflorus, v. 4	273
Aster Novæ Angliæ, v. 3	183
Astragalus caryocarpus, v. 2. 176; <i>et in append. vol. 6.</i>	
Astrapea Wallichii, v. 9	691
Athrix capensis, v. 8	681
Azalea calendulacea; <i>α</i> . v. 9	145
Azalea indica; <i>α</i> & <i>β</i> , v. 10	811
Azalea nitida, v. 5	414
Azalea nudiflora; <i>γ</i> . v. 2	120
Banisteria laurifolia, v. 11	937
Banisteria nitida, v. 11	950
Banksia æmula, v. 8	698
Banksia australis, v. 10	787
Banksia paludosa, v. 9	697
Barleria flava. <i>In notis voluminis 4ti.</i>	
Barleria mitis, v. 3. 191; <i>et in notis vol. 4.</i>	
Beaufortia decussata, v. 1	18
Beaumontia grandiflora, v. 11	891
Begonia acuminata, v. 5	364
Begonia argyrostigma, v. 8	686
Begonia humilis, v. 4	284
Begonia pauciflora, v. 6. 471; <i>et app. ejusd. voluminis.</i>	
Berberis Chitria, v. 9	729
Berberis pinnata, v. 9	702
Berberis sibirica, v. 6	487
Bidens procera, v. 8	684
Bignonia equinoctialis; <i>β</i> . <i>Chamberlayni</i> , v. 9	741
Bignonia grandifolia, v. 5	418
Bignonia venusta, v. 3	240
Blanfordia nobilis, v. 4	286
Blandfordia nobilis, v. 11	911
Borago orientalis, v. 4	288
Boronia serrulata, v. 10	842
Bosmas cinerea, v. 4	306
Bouvardia triphylla, v. 2	107
Bouvardia versicolor, v. 3	245
Brachysema latifolium, v. 2	118
Brachysema undulatum, v. 8	642
Brachystema tuberosum, v. 9	722
Brassia maculata, v. 10	852
Brexia madagascariensis, v. 9. 730. <i>et v. 10. 787, in notis.</i>	
Brexia spinosa, v. 11	872
Bromelia melanantha, v. 9	706
Bromelia nudicaulis, v. 3	203
Bromelia pallida, v. 4	344
Brunfelsia undulata, v. 3	298
Brunsvigia minor, v. 11	964
Brunsvigia Josephine; <i>β</i> . v. 3	192, 193
Brunsvigia toxicaria, v. 7	567
Bryonia quinquefolia, v. 1	89
Buckia Buceras, v. 12	907
Burchellia capensis, v. 6	408
Burchellia parviflora, v. 11	801
Calceola bicolor, v. 2	110
Calceola ovalis, v. 2	101
Calceola salicina, v. 11	923
Cactus Dillenii, v. 3	255
Cactus gibbosus, v. 2	137
Cactus repandus, v. 4	326

Volumen.	Folium.
Cactus speciosissimus, v. 6	486
Cactus speciosus, v. 4	304
Cactus truncatus, v. 9	686
Caladium odorum, v. 8	641
Calanthe veratrifolia, v. 9	720
Calathea flavescens, v. 11	922
Calceolaria corymbosa, v. 9	723
Calceolaria integrifolia, v. 9	744
Calceolaria crenata, v. 10	720
Caldasia heterophylla, v. 2	28
Calendula chrysanthemifolia, v. 1	40
Calendula graminifolia, v. 4	289
Calendula Tragus; <i>β</i> . v. 1	28
Callicarpa longifolia, v. 10	864
Callicarpa rubella, v. 11	883
Callistachys lanceolata, v. 3	216
Callistemon rigidum, v. 5	283
Calostemma luteum, v. 5	421
Calostemma purpureum, v. 5	422
Calotis cuneifolia, v. 6	504
Calotropis gigantea, v. 1	58
Calycanthus fertilis, v. 5	404
Calycanthus levigatus, v. 6	421
Calytrix glabra, v. 5	468
Camaridium ochroleucum, v. 10	844
Camellia japonica, var. v. 11	887
Camellia axillaris, v. 4. 349; <i>et append. vol. 8.</i>	
Camellia japonica; <i>α</i> . v. 2	112
Camellia japonica; <i>β</i> . v. 1	22
Camellia japonica; <i>α</i> . <i>inchoata</i> , v. 8	633
Camellia japonica; <i>luteo-albescens</i> , v. 9	708
Camellia japonica; <i>β</i> . <i>α</i> & <i>simp.</i> v. 5	353
Camellia oleifera, v. 11	948
Camellia Sasanqua, v. 1	12
Camellia Sasanqua; <i>β</i> . v. 7	547
Campanula aurea; <i>α</i> . v. 1	57
Campanula coronata, v. 2. 149; <i>et append. vol. 8.</i>	
Campanula glomerata; <i>β</i> . <i>dahurica</i> , v. 8	680
Campanula lactiflora, v. 3	241
Campanula lilifolia, v. 3	238
Campanula pentagonia, v. 1	26
Campanula saromatica, v. 3. 237; <i>et append. vol. 8.</i>	
Canna edulis, v. 9	775
Canna gigantea; v. 3. 206; <i>et in append. vol. 2.</i>	
Canna indica, v. 9	776
Canna tridiflora, v. 8. 609; <i>et append. ejusd. vol.</i>	
Canna Lambertii, v. 6. 470; <i>et in append. vol. 9.</i>	
Canna latifolia. <i>In append. vol. 9.</i>	
Canna limbata, v. 9	771
Canna lutes, v. 9	772
Canna occidentalis, v. 9	772
Canna patens, v. 7	576
Carica Papaya; <i>fem.</i> v. 6	428
Carmichaelia australis, v. 11	912
Carthamus tinctorius, v. 2	179
Cassia ligustrina, v. 2	109
Cassia occidentalis, v. 1	83
Cassia purpurea, v. 10	856
Cassinia aurea, v. 9	764
Cassinia spectabilis, v. 8	678
Castilleja septentrionalis, v. 11	286
Catesbea latifolia, v. 10	886
Catasetum Claveringii, v. 10	840
Cathartocarpus Bacillus, v. 11	881
Cattleya Forbesii, v. 11	293
Ceanothus asureus, v. 4	221
Celsia sublanata, v. 6	428
Cerbera fruticosa, v. 8	391
Ceropegia africana, v. 8	686
Chelranthus Chelri; <i>γ</i> . v. 3. 219; <i>et in append. vol. 7.</i>	
Chelranthus scoparius, v. 7. fol. 551. (2.) pag. 4; <i>et in append. ejusd. vol.</i>	



# GENERAL INDEX TO THE PRESENT AND PRECEDING VOLUMES.

Volume.	Folio.
<i>Chelone barbata</i> , v. 2	116
<i>Chelone obliqua</i> , v. 2	175
<i>Chimonanthus fragrans</i> ; $\beta$ , v. 6	451
<i>Chironia jasminoides</i> , v. 3	197
<i>Chlidanthus fragrans</i> , v. 8	640
<i>Chlorophyllum inornatum</i> . In <i>append. vol. 8</i> .	
<i>Chlorophyllum orchidastrium</i> , v. 10	813
<i>Chrysanthemum indicum</i> ; $\alpha$ , $\beta$ , v. 1	4
<i>Chrysanthemum indicum</i> ; $\beta$ , v. 6	455
<i>Chrysanthemum indicum</i> ; var. 14, v. 8	616
<i>Chrysalidula flava</i> , v. 10	778
<i>Cineraria speciosa</i> , v. 10	813
<i>Cirrhopetalum</i> , v. 10, <i>in testu</i>	832
<i>Cistus purpureus</i> , v. 5	408
<i>Cistus vaginatus</i> , v. 3	225
<i>Citrus nobilis</i> ; $\beta$ , v. 3	211
<i>Citrus Aurantium</i> ; $\gamma$ , v. 4	246
<i>Clematis aristata</i> , v. 3	238
<i>Clematis brachiata</i> , v. 2	97
<i>Clematis hedyarifolia</i> , v. 7	599
<i>Clerodendron lilioides</i> , v. 11	945
<i>Clerodendron paniculatum</i> , v. 5	406
<i>Clerodendron squamatum</i> , v. 8	649
<i>Clerodendron viscosum</i> , v. 8	629
<i>Clitoria Plumieri</i> , v. 4	268
<i>Cluytia ericoides</i> , v. 10	779
<i>Coleogyne fimbriata</i> , v. 11	868
<i>Colchicum arenarium</i> ; $\beta$ , <i>umbrosum</i> , v. 7	541
<i>Colchicum versicolor</i> , v. 7	571
<i>Columnnea scandens</i> , v. 10	905
<i>Combretum purpureum</i> , v. 5	429
<i>Convolvulus chinensis</i> , v. 4	322
<i>Convolvulus elongatus</i> , v. 6	498
<i>Convolvulus involucreatus</i> , v. 3	318
<i>Convolvulus pannifolius</i> , v. 3, 222; <i>et app. ejusd. vol.</i>	
<i>Convolvulus pentanthus</i> , v. 6	439
<i>Convolvulus silius</i> , v. 6	445
<i>Convolvulus suffruticosus</i> , v. 2, 133; <i>et append. vol. 3</i> .	
<i>Coreopsis incisa</i> , v. 1	7
<i>Coreopsis tinctoria</i> , v. 10	846
<i>Coris monspeliensis</i> , v. 7	536
<i>Coronilla juncea</i> , v. 10	820
<i>Cornus alba</i> , v. 6	515
<i>Cornus speciosa</i> , v. 1	26
<i>Cornus virens</i> , v. 1	3
<i>Costus afer</i> ; $\alpha$ , v. 8	633
<i>Costus Pisonis</i> , v. 11	899
<i>Costus speciosus</i> ; $\beta$ , v. 8	665
<i>Cotyledon decussata</i> , v. 11	915
<i>Crassula versicolor</i> , v. 4	320
<i>Crinum amabile</i> ; $\beta$ , <i>augustum</i> , v. 8	679
<i>Crinum bracteatum</i> , v. 3	179
<i>Crinum cruentum</i> , v. 2	171
<i>Crinum pendunculatum</i> , v. 1	63
<i>Crossandra undulatifolia</i> , v. 1	69
<i>Crotalaria incana</i> , v. 5	377
<i>Crotalaria purpurea</i> , v. 2	128
<i>Crotalaria retusa</i> , v. 3	223
<i>Crotalaria vitellina</i> , v. 8	447
<i>Cryptarrhena lunata</i> , v. 2	153
<i>Cryptopus elata</i> , v. 10, 817, <i>in testu</i> .	
<i>Cryptostegia grandiflora</i> , v. 5	435
<i>Cullumia ciliaris</i> , v. 5	384
<i>Cunonia capensis</i> , v. 10	828
<i>Cuphea procumbens</i> , v. 3	182
<i>Cuphea Melvillei</i> , v. 10	852
<i>Curculigo latifolia</i> , v. 9	754
<i>Curculigo plicata</i> , v. 4	345
<i>Curculigo recurvata</i> , v. 9	770
<i>Curcuma longa</i> , v. 11	886
<i>Cuscuta chilensis</i> , v. 7	603
<i>Cydonia chinensis</i> , v. 11	905

Volume.	Folio.
<i>Cymbidium xiphilifolium</i> , v. 7	529
<i>Cynanchum pilosum</i> , v. 2	111
<i>Cypha Phytosoma</i> , v. 8	625
<i>Cypripedium venustum</i> , v. 10	788
<i>Cyrtanthus collinus</i> , v. 2	162
<i>Cyrtanthus odoros</i> , v. 6	508
<i>Cyrtanthus spiralis</i> , v. 2	167
<i>Cyrtanthus uniflorus</i> , v. 2	168
<i>Cytisus biflorus</i> , v. 4	308
<i>Cytisus nigricans</i> , v. 10	802
<i>Cytisus proliferus</i> , v. 2	121
<i>Dahlia superflua</i> ; $\beta$ , v. 1	55
<i>Daphne collina</i> ; <i>neapolitana</i> , v. 10	822
<i>Daviesia alata</i> , v. 9	728
<i>Delphinium cheilanthum</i> , v. 6	473
<i>Delphinium cuneatum</i> , v. 4	327
<i>Delphinium grandiflorum</i> ; $\beta$ , v. 6	473
<i>Dendrobium cucullatum</i> , v. 7	548
<i>Dendrobium squaleum</i> , v. 9	732
<i>Dianella longifolia</i> , v. 9	734
<i>Dianella strumosa</i> , v. 9	751
<i>Dianthus crenatus</i> , v. 3, 256; <i>et in append. vol. 7</i> .	
<i>Dichorandra thyriflora</i> , v. 8	682
<i>Dienia congesta</i> , v. 10, 825, <i>in testu</i> .	
<i>Digitalis ambigua</i> , v. 1	64
<i>Digitalis canariensis</i> , v. 1	48
<i>Digitalis lutea</i> , v. 3	251
<i>Digitalis orientalis</i> , v. 7	564
<i>Digitalis parviflora</i> , v. 3	227
<i>Diosma amena</i> , v. 7	553
<i>Diosma ciliata</i> , v. 5	366
<i>Diosma dioica</i> ; <i>mar.</i> v. 6	502
<i>Diosma hirta</i> , v. 5	369
<i>Diosma lanceolata</i> , v. 6	476
<i>Diosma rubra</i> , v. 7	563
<i>Diospyros Embryopteris</i> , v. 6	489
<i>Ditca palustris</i> , v. 4	222
<i>Diaa bracteata</i> , v. 4	224
<i>Diaa grandiflora</i> , v. 11	226
<i>Diaa prasinata</i> , v. 3	210
<i>Dolichos purpureus</i> , v. 10	830
<i>Donia glutinosa</i> , v. 3, 187; <i>et in append. ejusd. vol.</i>	
<i>Dracocephalum nutans</i> , v. 10	841
<i>Dracontium polyphyllum</i> , v. 9	709
<i>Duranta Plumieri</i> , v. 3	244
<i>Eccremocarpus scaber</i> , v. 11	939
<i>Echinops paniculatus</i> , v. 5	366
<i>Echium candicans</i> , v. 1	44
<i>Echium fruticosum</i> , v. 1	36
<i>Echium grandiflorum</i> , v. 2	124
<i>Edwardia chrysophylla</i> , v. 9	738
<i>Elaeocarpus reticulata</i> , v. 8	657
<i>Ellechrysium proliferum</i> , v. 1	21
<i>Empusa paradoxa</i> , v. 10, 835, <i>in testu</i> .	
<i>Encelia canescens</i> , v. 11	909
<i>Enkianthus quinqueflorus</i> , v. 11	884
<i>Enkianthus reticulatus</i> , v. 11	805
<i>Epidendrum cuspidatum</i> , v. 10	783
<i>Epidendrum ciliare</i> , v. 10	784
<i>Epidendrum fuscum</i> , v. 1	67
<i>Epidendrum nutans</i> , v. 1	17
<i>Epidendrum umbellatum</i> , v. 1	80
<i>Epigaea repens</i> , v. 3	201
<i>Eranthemum crenulatum</i> , v. 11	879
<i>Eranthemum strictum</i> , v. 10	867
<i>Eria stellata</i> , v. 11	904
<i>Erica ardens</i> , v. 2	115
<i>Erica colorata</i> , v. 9	601
<i>Erica filamentosa</i> , v. 1	6
<i>Erica tumida</i> , v. 1	65
<i>Erigeron glaucum</i> , v. 1	10
<i>Erigeron Villarsii</i> , v. 7	583

GENERAL INDEX TO THE PRESENT AND PRECEDING VOLUMES.

<i>Volumen.</i>	<i>Folium.</i>	<i>Volumen.</i>	<i>Folium.</i>
<i>Erius Lychnides</i> , v. 9	748	<i>Grindelia angustifolia</i> , v. 10	781
<i>Eriobotrya japonica</i> . In <i>appendice voluminis</i> 6.		<i>Grindelia glutinosa</i> . In <i>appendice voluminis</i> 3.	
<i>Eriosepermum pubescens</i> , v. 7	578	<i>Grindelia inuloides</i> , v. 3	248
<i>Eriosepermum folioliferum</i> , v. 10	796	<i>Grislea tomentosa</i> , v. 1	30
<i>Eryngium aquaticum</i> , v. 5	373	<i>Gutteria rufa</i> , v. 10	826
<i>Erysimum diffusum</i> , v. 5. 388; et in <i>append.</i> vol. 7.		<i>Gymnoloma maculatum</i> , v. 8	682
<i>Erythrina caffra</i> , v. 9	736	<i>Habenaria fimbriata</i> , v. 5	403
<i>Erythrina carnea</i> , v. 5	389	<i>Hemanthus carneus</i> , v. 6	509
<i>Erythrina crista galli</i> , v. 4	313	<i>Hemanthus coarctatus</i> , v. 3	181
<i>Erythrina speciosa</i> , v. 9	750	<i>Hemanthus pubescens</i> , v. 5	382
<i>Ethulia conyzoides</i> , v. 9	695	<i>Hakea microcarpa</i> , v. 6	475
<i>Eucalyptus longifolia</i> , v. 11	947	<i>Halesia parviflora</i> , v. 11	932
<i>Euchilus obcordatus</i> , v. 5	403	<i>Hedychium angustifolium</i> , v. 2. 157; et in <i>append.</i> vol. 6.	
<i>Eucrosia bicolor</i> , v. 3	207	<i>Hedychium elatum</i> , v. 7	536
<i>Eugenia myrtifolia</i> , v. 8	627	<i>Hedychium gardenianum</i> , v. 9	774
<i>Eulophia gracilis</i> , v. 9	742	<i>Hedychium heteromallum</i> , v. 9	767
<i>Eulophia guineensis</i> , v. 8	686	<i>Hedysarum alpinum</i> , v. 10	806
<i>Euphorbia cyathophora</i> , v. 9	765	<i>Hedysarum ascendens; ceruleum</i> , v. 10	815
<i>Euphorbia punicia</i> , v. 3	190	<i>Hedysarum latifolium</i> , v. 5	365
<i>Euphorbia rigida</i> , v. 4	274	<i>Helium quadridentatum</i> , v. 7	598
<i>Evolvulus latifolius</i> , v. 5	401	<i>Helianthus atrorubens</i> , v. 6	508
<i>Flemingia strobilifera</i> , v. 8	617	<i>Helianthus linearis</i> , v. 7	523
<i>Fragaria indica</i> , v. 1	61	<i>Helianthus pubescens</i> , v. 7	524
<i>Fuchsia arboreascens</i> , v. 11	943	<i>Heliconia Bihai</i> , v. 5. 374; et in <i>nota penultima append.</i>	
<i>Fuchsia excorticata</i> , v. 10	857	<i>Helicteres verbascofolia</i> , v. 11	903
<i>Fuchsia gracilis</i> , v. 10	847	<i>Heliophila digitata</i> , v. 10	838
<i>Fumaria aurea</i> , v. 1. 66; et in <i>append.</i> vol. 7.		<i>Heliopsis canescens</i> , v. 7	592
<i>Fumaria eximia</i> , v. 1. 50; et in <i>append.</i> vol. 7.		<i>Hepatica americana</i> , v. 5	387
<i>Fumaria nobilis</i> , v. 5	395	<i>Hibbertia dentata</i> , v. 4	292
<i>Galactia pendula</i> , v. 4	269	<i>Hibiscus digitatus</i> , v. 8	606
<i>Galanthus plicatus</i> , v. 7	545	<i>Hibiscus diversifolius</i> , v. 5	381
<i>Galega grandiflora</i> , v. 9	769	<i>Hibiscus ficulneoides</i> , v. 11	538
<i>Galega orientalis</i> , v. 4	326	<i>Hibiscus heterophyllus</i> , v. 1	29
<i>Gardenia amara</i> , v. 9	735	<i>Hibiscus hispidus</i> , v. 10	806
<i>Gardenia florida</i> ; $\alpha$ . v. 6	449	<i>Hibiscus mutabilis</i> , v. 7	589
<i>Gardenia radicans</i> , v. 1	73	<i>Hibiscus pedunculatus</i> , v. 3	331
<i>Gastonia palmata</i> , v. 11	894	<i>Hibiscus phoeniceus</i> , v. 3	330
<i>Gastrolobium bilobum</i> , v. 5	411	<i>Hibiscus racemosus</i> , v. 11	917
<i>Gesania parvonia</i> , v. 1. 35; et <i>append.</i> <i>ejusd.</i> vol.		<i>Hibiscus Richardsoni</i> , v. 11	875
<i>Gemista canariensis</i> , v. 3	217	<i>Hibiscus Rosa malabarica</i> , v. 4	337
<i>Geodorum dilatatum</i> , v. 8	675	<i>Hibiscus strigosus</i> , v. 10	860
<i>Gerberia crenata</i> , v. 10	855	<i>Hibiscus tiliaceus</i> , v. 3	232
<i>Gemeria aggregata</i> , v. 4	399	<i>Hibiscus unidens</i> , v. 11	678
<i>Gemeria bulbosa</i> , v. 4	343	<i>Holmakioidia sanguinea</i> , v. 9	792
<i>Gemeria prasinata</i> , v. 5	428	<i>Homallium racemosum</i> , v. 6	519
<i>Gladiolus edulis</i> , v. 2. 169; et in <i>append.</i> vol. 7.		<i>Hovea Celsi</i> , v. 4	380
<i>Globularia longifolia</i> , v. 8	688	<i>Hovea linearis</i> , v. 6	463
<i>Gloriosa superba</i> , v. 1	77	<i>Hovea longifolia</i> , v. 8	614
<i>Glossula tentaculata</i> , v. 10	868	<i>Hoveia acerba</i> , v. 6. 501; et in <i>append.</i> vol. 7.	
<i>Gloxinia speciosa</i> , v. 3	213	<i>Hovenia dulcis</i> . In <i>append.</i> vol. 7.	
<i>Glycine bituminosa</i> , v. 3	261	<i>Hoya pallida</i> , v. 11	951
<i>Glycine caribaea</i> , v. 4	275	<i>Hyacinthus amethystinus</i> , v. 5	396
<i>Glycine comptoniana</i> , v. 4	298	<i>Hydrolea spinosa</i> , v. 7	566
<i>Glycine sinensis</i> , v. 3	650	<i>Hydrophyllum canadense</i> , v. 3	942
<i>Glycine vincentina</i> , v. 10	799	<i>Hydrophyllum virginicum</i> , v. 4	331
<i>Gnaphalium apiculatum</i> , v. 3	240	<i>Hyocymus canariensis</i> , v. 3. 180; et in <i>appendice ejusdem volum.</i>	
<i>Gnaphalium congestum</i> , v. 3	243	<i>Hypericum aegyptium</i> , v. 3	186
<i>Gnidia demutata</i> , v. 9. 757; in <i>append.</i> <i>ejusd.</i> vol. et in <i>append.</i> vol. 10.		<i>Hypoxis obtusa</i> , v. 2	150
<i>Gnidia imbricata</i> . In <i>append.</i> vol. 9.		<i>Hypoxis stellipilis</i> , v. 8	663
<i>Gnidia oppositifolia</i> , v. 1	9	<i>Indigofera amara</i> , v. 4	300
<i>Gnidia pinifolia</i> ; $\alpha$ . v. 1	19	<i>Indigofera australis</i> , v. 5	386
<i>Gnidia pinifolia</i> ; $\beta$ . v. 8	624	<i>Indigofera filifolia</i> . In <i>appendicibus</i> vol. 3 et 7.	
<i>Gompholobium grandiflorum</i> , v. 6	484	<i>Indigofera endecaphylla</i> , v. 10	789
<i>Gonolobus diadematus</i> , v. 3	252	<i>Inga purpurea</i> , v. 2	199
<i>Gonolobus maritimus</i> , v. 11	931	<i>Inula glandulosa</i> , v. 4	334
<i>Goodyera discolor</i> , v. 4	271	<i>Ipomoea bona nox</i> ; $\beta$ . <i>purpurascens</i> , v. 4. 290; et in <i>appendice ejusd.</i> vol. 4.	
<i>Gossypium barbadense</i> , v. 1	84	<i>Ipomoea cerulea</i> , v. 4	376
<i>Grevillea buxifolia</i> , v. 6	443	<i>Ipomoea chrysoides</i> , v. 4	270
<i>Griffinia hyacinthina</i> , v. 6. in <i>nota fol. vera</i> 444.			
<i>Griffinia parviflora</i> , v. 6. 511; et <i>tab.</i> in <i>append.</i> <i>ejusd.</i> vol.			

# GENERAL INDEX TO THE PRESENT AND PRECEDING VOLUMES.

Volumen.	Folium.
<i>Ipomoea denticulata</i> , v. 4	317
<i>Ipomoea hederacea</i> , v. 1	85
<i>Ipomoea Jalapa</i> ; <i>α.</i> v. 4. 342; <i>et append. ejusdem voluminis.</i>	
<i>Ipomoea Jalapa</i> ; <i>β. rosea</i> , v. 8	621
<i>Ipomoea insignis</i> , v. 1. 75; <i>et in append. vol. 7.</i>	
<i>Ipomoea maritima</i> , v. 4	319
<i>Ipomoea muricata</i> . <i>In appendice voluminis 4th.</i>	
<i>Ipomoea mutabilis</i> , v. 1	39
<i>Ipomoea noctiluca</i> , v. 11	889
<i>Ipomoea obscura</i> , v. 3. 239; <i>et append. vol. 4.</i>	
<i>Ipomoea pandurata</i> , v. 7	588
<i>Ipomoea paniculata</i> , v. 1	62
<i>Ipomoea pendula</i> , v. 8	632
<i>Ipomoea platensis</i> , v. 4	333
<i>Ipomoea sagittifolia</i> , v. 6	437
<i>Ipomoea sanguinea</i> , v. 1	9
<i>Ipomoea setosa</i> , v. 4	335
<i>Ipomoea tuberculata</i> , v. 1. 86; <i>et in append. volum. 4.</i>	
<i>Ipomoea tuberosa</i> , v. 9	768
<i>Ipomoea Turpethum</i> , v. 4	279
<i>Iris dichotoma</i> , v. 3. 246; <i>et in append. vol. 5.</i>	
<i>Iris arenaria</i> , v. 7	549
<i>Iris furcata</i> , v. 10	801
<i>Iris nepalensis</i> , v. 10	818
<i>Isachilus linearis</i> , v. 9	745
<i>Isachilus prolifer</i> , v. 10	825
<i>Isopogon longifolius</i> , v. 11	900
<i>Ixia maculata</i> ; <i>cæcia</i> , v. 7. 530; <i>et append. ejusd. vol.</i>	
<i>Ixora Baudhuca</i> , v. 6	513
<i>Ixora blanda</i> , v. 2. 100; <i>et in append. vol. 6.</i>	
<i>Ixora cuneifolia</i> , v. 8	648
<i>Ixora crocata</i> , v. 10	782
<i>Ixora grandiflora</i> , v. 2. 154; <i>et append. ejusd. vol.</i>	
<i>Ixora rosea</i> , v. 7	540
<i>Jacaranda mimosaefolia</i> , v. 8	631
<i>Jacaranda ovalifolia</i> , v. 10. <i>et in append.</i>	
<i>Jasione perennis</i> , v. 6	505
<i>Jasminum angustifolium</i> ; <i>β. laurifolium</i> , v. 7	524
<i>Jasminum auriculatum</i> , v. 4	264
<i>Jasminum asoricum</i> , v. 1	89
<i>Jasminum gracile</i> , v. 8	606
<i>Jasminum grandiflorum</i> , v. 2	91
<i>Jasminum hirsutum</i> , v. 1. 15, <i>et in append. ejusd. vol.</i>	
<i>Jasminum humile</i> , v. 5	350
<i>Jasminum paniculatum</i> , v. 9	690
<i>Jasminum revolutum</i> , v. 3. 178; <i>et in append. vol. 6.</i>	
<i>Jasminum Sambac</i> , v. 1	1
<i>Jasminum trinerve</i> , v. 11	918
<i>Jasminum undulatum</i> , v. 6. 436; <i>et in app. ejusd. vol.</i>	
<i>Jatropha gossypifolia</i> , v. 9	748
<i>Justicia eustachiana</i> , v. 4	309
<i>Justicia Gendarussa</i> , v. 8. 635; <i>et in append. vol. ejusd.</i>	
<i>Justicia pectoralis</i> , v. 10	796
<i>Justicia carthagenensis</i> , v. 10	797
<i>Kæmpferia pandurata</i> , v. 2	173
<i>Kaulfussia amelloides</i> , v. 6	490
<i>Kenedia cordata</i> , v. 11	944
<i>Knowltonia vesicatoria</i> , v. 11	936
<i>Kelreuteria paniculata</i> , v. 4	330
<i>Lachenalia pallida</i> ; <i>α.</i> v. 4	314
<i>Lachenalia pallida</i> ; <i>β.</i> v. 4	287
<i>Lambertia formosa</i> , v. 7	528
<i>Lantana fucata</i> , v. 10	798
<i>Lebeckia contaminata</i> , v. 2. 104; <i>et in appendice vol. 3.</i>	
<i>Lechenaultia formosa</i> , v. 11	916
<i>Leonotis nepetifolia</i> , v. 4	281
<i>Leonotis intermedia</i> , v. 10	850
<i>Leucadendron corymbosum</i> , v. 5	402
<i>Leucadendron tortum</i> , v. 10	826
<i>Leucolum triciphyllum</i> ; <i>α.</i> v. 7. 544; <i>et in append. ejusd. vol.</i>	

Volumen.	Folium.
<i>Liatris elegans</i> , v. 4	267
<i>Liatris intermedia</i> , v. 11	948
<i>Liatris pilosa</i> , v. 7	595
<i>Liatris scariosa</i> , v. 7	590
<i>Lilium carolinianum</i> , v. 7	580
<i>Lilium dauricum</i> , v. 7. 594; <i>in nota tertius, obsequi icono.</i>	
<i>Lilium longiflorum</i> ; <i>β.</i> v. 7	560
<i>Lilium philadelphicum</i> ; <i>β. andinum</i> , v. 7	594
<i>Lilium pumilum</i> , v. 2	132
<i>Limodorum falcatum</i> , v. 4	283
<i>Liparis hirsuta</i> , v. 1	8
<i>Liparis foliosa</i> , v. 11	882
<i>Lisianthus longifolius</i> , v. 11	880
<i>Lissochilus speciosus</i> , v. 7. 573; <i>in textu male.</i>	578
<i>Loasa tricolor</i> , v. 8	667
<i>Loasa acanthifolia</i> , v. 10	785
<i>Lobelia campanuloides</i> , v. 9	733
<i>Lobelia fulgens</i> , v. 2	165
<i>Lobelia siphilitica</i> , v. 7	537
<i>Lobelia splendens</i> , v. 1	60
<i>Lomatia longifolia</i> , v. 6	442
<i>Lonicera dioica</i> ; <i>β.</i> v. 2	138
<i>Lonicera flexuosa</i> , v. 9	712
<i>Lonicera japonica</i> , v. 1	70
<i>Lonicera sempervirens</i> ; <i>β. minor</i> , v. 7	586
<i>Lonicera tatarica</i> , v. 1	31
<i>Lupinus mexicanus</i> , v. 6	487
<i>Lychnis fulgens</i> , v. 6	478
<i>Lycium afrum</i> , v. 5	354
<i>Macradenia lutescens</i> , v. 8. 612; <i>et in append. ejusdem voluminis.</i>	
<i>Magnolia cordata</i> , v. 4	325
<i>Magnolia pyramidalis</i> , v. 5	407
<i>Mahernia grandiflora</i> , v. 3	224
<i>Malachra fasciata</i> , v. 6	467
<i>Malpighia coccifera</i> , v. 7	568
<i>Malpighia fucata</i> , v. 3	189
<i>Malpighia urens</i> , v. 2	96
<i>Malva calycina</i> , v. 4	297
<i>Malva capensis</i> , v. 4	295
<i>Malva fragrans</i> , v. 4	296
<i>Malva grossularifolia</i> ; <i>α. inodora</i> , v. 7	561
<i>Manettia coccinea</i> , v. 9	693
<i>Maranta bicolor</i> , v. 10	786
<i>Maranta zebrina</i> , v. 5	385
<i>Marica cerulea</i> , v. 9	713
<i>Marica gladiata</i> , v. 3	239
<i>Marica iridifolia</i> , v. 8	646
<i>Marsdenia suaveolens</i> , v. 6	489
<i>Martinia lutea</i> , v. 11	934
<i>Massonia longifolia</i> ; <i>β.</i> v. 5	694
<i>Maxillaria Harrisonæ</i> , v. 11	887
<i>Melaleuca fulgens</i> , v. 2	103
<i>Melaleuca incana</i> , v. 5	410
<i>Melaleuca squamea</i> , v. 6	477
<i>Melastoma granulosa</i> , v. 8. 671; <i>et append. vol. ejusd.</i>	
<i>Melastoma heteromalla</i> , v. 8	644
<i>Melastoma levigata</i> , v. 5	363
<i>Melastoma malabathrica</i> , v. 8	672
<i>Melia sempervirens</i> , v. 8	634
<i>Meibanthus major</i> , v. 1	45
<i>Melodinus monogynus</i> , v. 10	834
<i>Mesembryanthemum blandum</i> , v. 7	582
<i>Mesembryanthemum obliquum</i> , v. 10	863
<i>Mesembryanthemum capitatum</i> , v. 6	494
<i>Mesembryanthemum elongatum</i> , v. 6	493
<i>Mesembryanthemum maximum</i> , v. 5	388
<i>Mesembryanthemum tigrinum</i> , v. 3	260
<i>Morptius japonica</i> , v. 5. 365; <i>et in append. voluminis 6.</i>	
<i>Mimosa pudica</i> , v. 11	941
<i>Mimosa sensitiva</i> , v. 1	25

GENERAL INDEX TO THE PRESENT AND PRECEDING VOLUMES.

<i>Volume.</i>	<i>Folium.</i>	<i>Volume.</i>	<i>Folium.</i>
<i>Mimulus parviflorus</i> , v. 11	874	<i>Pancratium gulanense</i> , v. 4	265
<i>Mitella diphylla</i> , v. 2	166	<i>Pancratium maritimum</i> , v. 2	161
<i>Modocra lobata</i> ; <i>mas.</i> v. 5	433	<i>Pancratium mexicanum</i> , v. 11	240
<i>Monarda punctata</i> , v. 1	87	<i>Pancratium ovatum</i> , v. 1	43
<i>Moraea lurida</i> , v. 4. 312; <i>et append. vol. 4.</i>		<i>Pancratium verecundum</i> , v. 5	413
<i>Moraea Herberti</i> , v. 11	949	<i>Pancratium zeylanicum</i> , v. 6	479
<i>Muraya exotica</i> , v. 5	434	<i>Papaver bracteatum</i> , v. 8	558
<i>Musa rosacea</i> , v. 9	706	<i>Papaver floribundum</i> , v. 2. 134; <i>et in append. vol. 9.</i>	
<i>Muscari ciliatum</i> , v. 5	394	<i>Pasiflora adiantifolia</i> , v. 3	333
<i>Mussaenda frondosa</i> , v. 6	517	<i>Pasiflora albidia</i> , v. 8	677
<i>Narcissus montanus</i> , v. 2	123	<i>Pasiflora angustifolia</i> , v. 3	188
<i>Narcissus Macleanii</i> , v. 9. 762, <i>in textu.</i>		<i>Pasiflora alata-cerulea</i> , v. 10	848
<i>Narcissus Sabini</i> , v. 9. 762; v. 10. 781. <i>in nota</i> ; <i>et in append. hujus vol.</i>		<i>Pasiflora cerulea</i> , v. 6	488
<i>Narcissus gracilis</i> , v. 10	816	<i>Pasiflora filamentosa</i> , $\beta$ . v. 7	584
<i>Nauclea Adina</i> , v. 11	895	<i>Pasiflora foetida</i> , v. 4	331
<i>Nauclea Adinoides</i> , v. 11. 896, <i>in textu.</i>		<i>Pasiflora glauca</i> , v. 1	88
<i>Nemophila phacelloides</i> , v. 9	740	<i>Pasiflora gracilis</i> , v. 11	670
<i>Neottia australis</i> ; $\beta$ . v. 7	602	<i>Pasiflora Herbertiana</i> , v. 9	737
<i>Neottia orchiloides</i> , v. 9	701	<i>Pasiflora holosericea</i> , v. 1	59
<i>Neottia procera</i> , v. 8	639	<i>Pasiflora incarnata</i> ; $\alpha$ . v. 4	332
<i>Neottia bicolor</i> , v. 10. 794; <i>et v. 10. 823, in textu.</i>		<i>Pasiflora incarnata</i> ; $\beta$ . <i>edulis</i> , v. 2. 152; <i>et in append. ejusd. vol. atque vol. 6.</i>	
<i>Nerium odoratum</i> ; $\beta$ . v. 1	74	<i>Pasiflora laurifolia</i> , v. 1	13
<i>Nicotiana glauca</i> , v. 10	833	<i>Pasiflora lunata</i> , v. 7	577
<i>Nolana paradoxa</i> , v. 10	865	<i>Pasiflora lutea</i> , v. 1	79
<i>Nyctanthus arbor tristis</i> , v. 5	399	<i>Pasiflora maliformis</i> , v. 2	94
<i>Ocimum febrifugum</i> , v. 9	753	<i>Pasiflora minima</i> , v. 2	144
<i>Oenothera acaulis</i> , v. 9	763	<i>Pasiflora Murucuja</i> , v. 7	574
<i>Oenothera odorata</i> , v. 2	147	<i>Pasiflora pallida</i> , v. 8	660
<i>Oenothera Romanovii</i> , v. 7	562	<i>Pasiflora peltata</i> , v. 6	507
<i>Oenia Auberti</i> , v. 10. 817, <i>in textu.</i>		<i>Pasiflora perfoliata</i> , v. 1	78
<i>Olea capensis</i> , v. 8	613	<i>Pasiflora picturata</i> , v. 8	673
<i>Onocidium luridum</i> , v. 9	727	<i>Pasiflora quadrangularis</i> , v. 1	14
<i>Onocidium papillo</i> , v. 11	910	<i>Pasiflora racemosa</i> , v. 4	285
<i>Onocidium pumilum</i> , v. 11	920	<i>Pasiflora rubra</i> , v. 2	95
<i>Ophopogon spicatus</i> , v. 7	593	<i>Pasiflora tuberosa</i> , v. 5	432
<i>Ophrys speculum</i> , v. 5	370	<i>Pasiflora Vespertilio</i> , v. 7	597
<i>Ophrys tenthredinifera</i> , v. 3	205	<i>Paterosia glabrata</i> , v. 1	51
<i>Orchis longibracteata</i> , v. 5	357	<i>Pavetta indica</i> , v. 3	198
<i>Orchis longicornu</i> , v. 3	202	<i>Pavonia spinifex</i> , v. 4	330
<i>Orchis tephrosanthos</i> ; $\beta$ . v. 5	375	<i>Pedilanthus thymaloides</i> , v. 10	837
<i>Orchis variegata</i> , v. 5	367	<i>Pennisetum squamosum</i> , v. 2	106
<i>Ornithogalum corymbosum</i> , v. 11	906	<i>Pentapetes phoenicea</i> , v. 7	575
<i>Ornithogalum fimbriatum</i> , v. 7	555	<i>Pergularia odoratissima</i> , v. 5	412
<i>Ornithogalum niveum</i> , v. 3	235	<i>Periploca graeca</i> , v. 10	863
<i>Ornithogalum prasinum</i> , v. 2	158	<i>Peucedanum aureum</i> , v. 7	550
<i>Ornithogalum revolutum</i> , v. 4	315	<i>Phaseolus Caracalla</i> , v. 4	341
<i>Ornithogalum thymoides</i> ; $\alpha$ . v. 4	316	<i>Phaseolus semierectus</i> , v. 9	743
<i>Ornithogalum thymoides</i> ; $\beta$ . v. 4	305	<i>Philadelphus grandiflorus</i> , v. 7	570
<i>Ornithogalum virens</i> , v. 10	814	<i>Phlox suffruticosa</i> , v. 1	68
<i>Osbeckia chinensis</i> , v. 7	542	<i>Photinia arbutifolia</i> , v. 6	491
<i>Osbeckia stellata</i> , v. 8	674	<i>Phycella ignea</i> , v. 10	909
<i>Osbeckia zeylanica</i> , v. 7	565	<i>Phyllis capitata</i> , v. 9	711
<i>Othonna abrotanifolia</i> , v. 2	108	<i>Pingicula lutea</i> , v. 2	126
<i>Othonna cheirifolia</i> , v. 4	266	<i>Pittosporum revolutum</i> , v. 3	186
<i>Oxalis flava</i> , v. 2	117	<i>Pittosporum undulatum</i> , v. 1	16
<i>Oxalis Plumieri</i> , v. 10	810	<i>Pleurothallis punctata</i> , v. 9	759
<i>Oxylobium arborescens</i> , v. 5	362	<i>Plumbago capensis</i> , v. 5	417
<i>Oxylobium retusum</i> , v. 11	913	<i>Plumeria acuminata</i> , v. 2	114
<i>Pachysandra procumbens</i> , v. 1	33	<i>Plumeria bicolor</i> , v. 6	480
<i>Paeonia albiflora</i> ; $\beta$ . v. 1	42	<i>Plumeria rubra</i> , v. 10	739
<i>Paeonia albiflora</i> ; $\alpha$ . v. 8	630	<i>Plumeria tricolor</i> , v. 6	510
<i>Paeonia albiflora</i> ; $\alpha$ . v. 6	485	<i>Podalyria buxifolia</i> , v. 11	869
<i>Paeonia cretica</i> , v. 10	819	<i>Pogonia ophioglossoides</i> , v. 2	148
<i>Paeonia mollis</i> , v. 6	474	<i>Pogonia pendula</i> , v. 11	908
<i>Paeonia Moutan</i> ; $\alpha$ . v. 5	379	<i>Polemonium mexicanum</i> , v. 6	490
<i>Pancratium Amanceae</i> , v. 7	600	<i>Pollanthes tuberosa</i> , v. 1	63
<i>Pancratium angustum</i> , v. 3	221	<i>Polygala latifolia</i> , v. 8	645
<i>Pancratium australasicum</i> , v. 9	715	<i>Polygala ligularis</i> , v. 3	637
<i>Pancratium calathinum</i> , v. 3	215	<i>Polygala myrtifolia</i> , v. 8	669
<i>Pancratium canariense</i> , v. 2	174	<i>Polygala oppositifolia</i> , v. 8	636
<i>Pancratium carolinianum</i> , v. 11	287	<i>Polygala paniculata</i> , v. 9	761

GENERAL INDEX TO THE PRESENT AND PRECEDING VOLUMES.

<i>Folium.</i>	<i>Folium.</i>	<i>Folium.</i>	<i>Folium.</i>
<i>Polygala speciosa</i> , v. 2	150	<i>Royena pubescens</i> , v. 6	500
<i>Polygonum frutescens</i> , v. 3	254	<i>Rubus reflexus</i> , v. 6	461
<i>Polytachya puberula</i> , v. 10	851	<i>Rubus parvifolius</i> , v. 6	469
<i>Ponthieva petiolata</i> , v. 9	760	<i>Rubus pauciflorus</i> , v. 10	554
<i>Portulaca pilosa</i> , v. 10	792	<i>Rudbeckia triloba</i> , v. 7	525
<i>Portulaca foliosa</i> , v. 10	793	<i>Ruellia paniculata</i> , v. 7	555
<i>Primula minima</i> , v. 7	581	<i>Ruellia periclyfolia</i> , v. 11	555
<i>Primula Pallasii</i> , v. 11	596	<i>Ruta pinnata</i> , v. 4	397
<i>Primula prenitens</i> , v. 7	539	<i>Salvia amarissima</i> , v. 4	347
<i>Prostanthera lasianthos</i> , v. 2	143	<i>Salvia amena</i> , v. 6	446
<i>Protea acerosa</i> , v. 5	361	<i>Salvia hispanica</i> , v. 5	359
<i>Protea grandiflora</i> ; $\beta$ . v. 7	569	<i>Salvia splendens</i> , v. 8	697
<i>Protea longifolia</i> , v. 1	47	<i>Sansevieria seylanica</i> , v. 2	169
<i>Protea nerifolia</i> , v. 3	208	<i>Sanvitalia procumbens</i> , v. 9	707
<i>Protea pulchella</i> , v. 1	20	<i>Sarcanthus</i> , v. 10. 817, in textu.	
<i>Prunus japonica</i> , v. 1. 27; et in append. voluminis 6.		<i>Satyrium coriifolium</i> , v. 9	703
<i>Prunus paniculata</i> , v. 10	800	<i>Satyrium cucullatum</i> , v. 5	416
<i>Prunus prostrata</i> , v. 2	136	<i>Scabiosa Webbiana</i> , v. 9	717
<i>Psidium cacteanum</i> , v. 8	622	<i>Scabiosa graminifolia</i> , v. 10	836
<i>Psidium polycarpon</i> , v. 8	653	<i>Schisanthus pinnatus</i> , v. 9	726
<i>Psoralea mellilotoides</i> , v. 6	454	<i>Schizopetalon Walkeri</i> , v. 9	752
<i>Psoralea Onobrychia</i> , v. 6	453	<i>Sedum cæruleum</i> , v. 6	520
<i>Psoralea pedunculata</i> , v. 3	923	<i>Sedum ternatum</i> , v. 2	142
<i>Psychotria elliptica</i> , v. 8	607	<i>Selago fasciculata</i> , v. 3	184
<i>Pulmonaria paniculata</i> ; $\alpha$ . v. 2	146	<i>Selloa glutinosa</i> , v. 6	462
<i>Pultenaea retusa</i> , v. 5	378	<i>Sempervivum arboreum</i> , v. 2	99
<i>Pyrethrum feniculaceum</i> , v. 4	273	<i>Sempervivum caliciforme</i> , v. 11	882
<i>Pyrus coronaria</i> , v. 8	651	<i>Sempervivum glutinosum</i> , v. 4	276
<i>Pyrus salicifolia</i> , v. 6	514	<i>Senecio speciosus</i> , v. 1	41
<i>Quisqualis indica</i> , v. 6	492	<i>Senecio venustus</i> , v. 11	901
<i>Raphiolepis indica</i> , v. 6	468	<i>Sesbania picta</i> , v. 11	873
<i>Raphiolepis salicifolia</i> , v. 8	662	<i>Sida grandifolia</i> , v. 5	360
<i>Reaumuria hypericoides</i> , v. 10	845	<i>Silene pennsylvanica</i> , v. 3. 247; et append. ejusd. vol.	
<i>Reihania pungens</i> , v. 7	587	<i>Solanum amazonium</i> , v. 1. 71; et in append. vol. 2.	
<i>Reseda odorata</i> ; $\beta$ . v. 3	227	<i>Solanum decurrens</i> , v. 2	140
<i>Rhexia holoserica</i> , v. 4	323	<i>Solanum fontanesianum</i> , v. 2	177
<i>Rhexia viminea</i> , v. 8	664	<i>Sparaxis grandiflora</i> , v. 3. 258; et append. ejusd. vol.	
<i>Rhododendron arboreum</i> , v. 11	890	<i>Spartium ferox</i> , v. 5	368
<i>Rhododendron dauricum</i> ; $\beta$ . v. 3	194	<i>Spathella simplex</i> , v. 8	670
<i>Rhododendron hybridum</i> , v. 3	196	<i>Spermadictyon suaveolens</i> , v. 4	348
<i>Rhododendron punctatum</i> ; $\beta$ . v. 1	37	<i>Sphenogyne pilifera</i> , v. 7	604
<i>Ribes aureum</i> , v. 2	125	<i>Spiranthes cernua</i> , v. 10	823
<i>Ricotia aegyptiaca</i> , v. 1. 49; et append. vol. 7.		<i>Spiranthes pudica</i> , v. 7. 602; et v. 10. 123, in textu.	
<i>Rodriguezia secunda</i> , v. 11	930	<i>Spiranthes flexuosa</i> , v. 10. 823, in textu.	
<i>Rosa alpina</i> , v. 5	424	<i>Spiranthes parviflora</i> , v. 10. 823, in textu.	
<i>Rosa Banksiae</i> , v. 5	397	<i>Spiranthes africana</i> , v. 10. 823, in textu.	
<i>Rosa centifolia</i> ; $\beta$ . (muscosa flore albo pleno). In appendice voluminis 6.		<i>Spiranthes congesta</i> , v. 10. 823, in textu.	
<i>Rosa centifolia</i> ; $\beta$ . (muscosa flore simplici). In appendice voluminis 6.		<i>Spiranthes picta</i> , v. 10. 823, in textu.	
<i>Rosa ferox</i> , v. 5	420	<i>Spiranthes bicolor</i> , v. 10. 794; et v. 10. 823, in textu.	
<i>Rosa fraxinifolia</i> , v. 6	458	<i>Spiranthes diuretica</i> , v. 10. 823, in textu.	
<i>Rosa gallica</i> ; $\alpha$ . v. 6	448	<i>Spiranthes quadridentata</i> , v. 10. 823, in textu.	
<i>Rosa grandiflora</i> , v. 11	888	<i>Spiranthes strataematica</i> , v. 10. 823, in textu.	
<i>Rosa involucreta</i> , v. 9	739	<i>Stapelia hirsuta</i> ; $\alpha$ . v. 9	756
<i>Rosa indica</i> ; odoratissima, v. 10	804	<i>Stapelia normalis</i> , v. 9	755
<i>Rosa kamschatka</i> , v. 5	419	<i>Stellis ophioglossoides</i> , v. 11	935
<i>Rosa kamschatka</i> ; nitens, v. 10	824	<i>Stenantha pinifolia</i> , v. 3	218
<i>Rosa Lawrenceana</i> , v. 7	538	<i>Stenocarpus salignus</i> , v. 6	441
<i>Rosa microphylla</i> , v. 11	919	<i>Stenochilus glaber</i> , v. 7	572
<i>Rosa moschata</i> ; nepalensis, v. 10	829	<i>Stenochilus maculatus</i> , v. 8	647
<i>Rosa moschata</i> ; nicaea, v. 10	861	<i>Sterculia Balanagha</i> , v. 3	185
<i>Rosa multiflora</i> , v. 5	425	<i>Stevia Eupatoria</i> , v. 2. 93; et append. vol. 3.	
<i>Rosa parvifolia</i> , v. 6	452	<i>Strellizia parviflora</i> ; juncea, v. 6	516
<i>Rosa provincialis</i> ; $\beta$ . (muscosa flore albo pleno). v. 2. 102; et in appendice voluminis 6.		<i>Strophanthus dichotomus</i> , v. 6	469
<i>Rosa provincialis</i> ; $\beta$ . (muscosa flore simplici). v. 1. 53; et in appendice voluminis 6.		<i>Strumaria filifolia</i> , v. 6	440
<i>Rosa rubrifolia</i> , v. 5	430	<i>Stylidium adnatum</i> , v. 11	914
<i>Rosa sempervirens</i> , v. 6	465	<i>Stylidium graminifolium</i> , v. 1	90
<i>Rosa spinosissima</i> ; recroea, v. 5	431	<i>Stylidium laricifolium</i> , v. 7	550
<i>Rosa sulphurea</i> , v. 1	46	<i>Styphelia longifolia</i> , v. 1	24
		<i>Symplocos sinica</i> , v. 9	710
		<i>Tabernemontana amygdalifolia</i> , v. 4	338
		<i>Tabernemontana laurifolia</i> , v. 9	716
		<i>Teceda lucida</i> , v. 3	209
		<i>Teceda pubescens</i> , v. 3	214

# GENERAL INDEX TO THE PRESENT AND PRECEDING VOLUMES.

<i>Volume.</i>	<i>Folium.</i>	<i>Volume.</i>	<i>Folium.</i>
<i>Templetonia retusa</i> , v. 5 .....	363	<i>Vaccinium amaranthum</i> , v. 5 .....	440
<i>Templetonia glauca</i> , v. 10 .....	859	<i>Vaccinium fuscum</i> , v. 4 .....	362
<i>Testudinaria elephantipes</i> , v. 11 .....	921	<i>Valeriana cornucopiae</i> , v. 2 .....	185
<i>Tetranthera laurifolia</i> , v. 11 .....	893	<i>Vanda Roxburghii</i> , v. 6 .....	506
<i>Thunbergia grandiflora</i> , v. 6 .....	425	<i>Vanda paniculata</i> . In <i>append.</i> vol. 6.	
<i>Thysanotus isantherus</i> , v. 8 .....	655	<i>Vanda teretifolia</i> , v. 8 .....	676
<i>Thysanotus junceus</i> , v. 8 .....	656	<i>Vella Pseudo-Cytisus</i> , v. 4 .....	293
<i>Tillandsia flexuosa</i> ; <i>pauciflora</i> , v. 9 .....	749	<i>Velleja lyrata</i> , v. 7 .....	551
<i>Tillandsia xiphioides</i> , v. 2 .....	105	<i>Verbascum formosum</i> , v. 7 .....	558
<i>Tilthonia tagetiflora</i> , v. 7 .....	591	<i>Verbena Aubletia</i> , v. 4 .....	294
<i>Tournefortia fruticosa</i> , v. 6 .....	464	<i>Vernonia sericea</i> ; $\beta$ . v. 7 .....	522
<i>Trachelium caeruleum</i> , v. 1 .....	72	<i>Vestia lycioides</i> , v. 4. 299; <i>et in appendice</i> vol. 5.	
<i>Tradescantia fuscata</i> , v. 6 .....	463	<i>Viburnum odoratissimum</i> , v. 6 .....	426
<i>Trapa natans</i> , v. 3. 299; <i>et in app. ejusd.</i> vol.		<i>Viburnum rugosum</i> , v. 5. 376; <i>et in appendice</i> <i>vol. 5.</i>	
<i>Tribulus cistoides</i> , v. 10 .....	791	<i>Vicia astro purpurea</i> , v. 11 .....	871
<i>Tribrachia</i> , v. 10. 832, <i>in textu</i> .		<i>Vinca herbacea</i> , v. 4 .....	301
<i>Triptilion cordifolium</i> , v. 10 .....	853	<i>Viola altaica</i> , v. 1 .....	54
<i>Tritonia flava</i> , v. 9 .....	747	<i>Viola pubescens</i> ; $\beta$ . v. 5 .....	390
<i>Tritonia refracta</i> , v. 2. 135; <i>et append.</i> vol. 3.		<i>Weberia corymbosa</i> , v. 2 .....	119
<i>Tropaeolum peregrinum</i> , v. 9. 718; <i>et</i> v. 10. 790, <i>in nota</i> .		<i>Wedelia hispidula</i> , v. 7 .....	543
<i>Tropaeolum aduncum</i> , v. 9. 718; <i>et</i> v. 10. 790, <i>in nota</i> .		<i>Wedelia radiosa</i> , v. 8 .....	610
<i>Tulipa biflora</i> , v. 7 .....	536	<i>Witsenia maura</i> , v. 1 .....	5
<i>Tulipa cornuta</i> , v. 2 .....	127	<i>Wrightia tinctoria</i> , v. 11 .....	933
<i>Tulipa gesneriana</i> , v. 5 .....	380	<i>Xylobium squalens</i> , v. 9 .....	732
<i>Tulipa oculus solis</i> , v. 3 .....	204	<i>Xylophylla falcata</i> , v. 5 .....	373
<i>Tupistra squalida</i> , v. 9 .....	704	<i>Zephyranthes grandiflora</i> , v. 11 .....	502
<i>Uropetalon glaucum</i> , v. 2 .....	156	<i>Zephyranthes rosea</i> , v. 10 .....	921

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